

Department of Fish and Game

Office of Spill Prevention and Response

California Aquatic Non-native Organism Database (CANOD)



Data Dictionary

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Data Dictionary

The Data Dictionary lists all the tables in CANOD by alphabetical order and includes detailed information pertaining to each field in each table. Click on the [blue](#) links to be directed to a specified table.

Table Name: AgencyLookUp		Current Number of Records: 102	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides contact information for the agencies associated with the Marine Invasive Species Program. See following tables for associated data: CORCollection ; FundingAgenciesLookUp ; LabBatch ; PersonnelLookUp ; and Sample Entry .			
Field Name	Data Type	Field Size	Description
AgencyRowID	AutoNumber	Replication ID	Primary Key. This row is automatically assigned a number ID for per agency.
AgencyCode	Text	20	Codes are picked out to abbreviate an agency name. See following tables for associated data: CORCollection; FundingAgenciesLookUp; LabBatch; PersonnelLookUp; and Sample_Entry;
AgencyName	Text	225	A name of Agency's associated with the MISP.
AgencyDescr	Text	225	Describes the agency.
Active	Yes/No	Yes/No	Check mark means no and a blank box means yes.
PrimaryContact	Text	50	Lists the primary contact for the agency.
StreetAddress	Text	50	Lists the street address of the agency's office.
City	Text	225	Lists the city of the agency's office.
State	Text	2	Lists the State of the agency's office.
Zip	Text	10	Lists the zip code of the agency's office.
Email	Text	50	Lists the email address of the primary contact for the agency.
Telephone	Text	25	Lists the telephone number of the primary contact for the agency.
Fax	Text	25	Lists the fax number for the primary contact for the agency.
WebAddress	Text	75	Lists the web address of the agency.

Table Name: AgencyLookUp		Current Number of Records: 102	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides contact information for the agencies associated with the Marine Invasive Species Program. See following tables for associated data: CORCollection ; FundingAgenciesLookUp ; LabBatch ; PersonnelLookUp ; and Sample Entry .			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: AnalyteLookUp		Current Number of Records: 659		As of : 08/17/09
Notes: MLML currently has control over this table. This table provides chemical names and descriptions. See the following tables for associated data: ConstituentLookUp ; FieldResEquipLookUp ; and FieldObsVarLookUp .				
Field Name	Data Type	Field Size	Description	
AnalyteRowID	AutoNumber	Replication ID	This site is the primary key. Unique Row Identifier; generated from within database.	
AnalyteCode	Number	Integer	This field provides a code for each chemical. See ConstituentLookUp table for associated data.	
AnalyteName	Text	125	This field provides the name to each chemical. See FieldResEquipLookUp; and FieldObsVarLookUp tables for associated data.	
CASNumber	Number	Double	This field provides the CAS number for each chemical. CAS stands for Chemical Abstracts Service, a service of the American Chemical Society that indexes and compiles abstracts of worldwide chemical literature.	
AnalyteDescr	Text	150	Describes the full name or alternate names of each chemical.	
Utility1	Text	25	No data entered in this field.	
Group1	Text	30	Describes if the chemical is: bacteria; Field Observations; Inorganic; organics; pathogens; surfactants; trash; water quality measurements.	
Group2	Text	30	Describes if chemical is: carbamate pesticide; conventional; Dioxins/Dibenzofurnas; Flame Retardants; Herbicides; Inorganics; Metals; Organotins; PAHs; Pathogens; PCBs; Pesticides; Semi-VOAs; Surfactants; Trace Metals; VOAs	
Group3	Text	30	Aroclor; Biocide; Carbamate Pest.; Endocrine Disruptors; Glycer; GrainSize; Herbicides; Inorganics; Insecticide; Metalloids; Metals; MTBE_BTEX; Nutrients; OrganochlorinePest.; OrganophosphatePest.; Pathogens; PCDDs/PCDFs; Phenols; Semi-VOAs; TraceMetals; Triazines; WaterQualityMeasurements	

Table Name: AnalyteLookUp		Current Number of Records: 659		As of : 08/17/09
Notes: MLML currently has control over this table. This table provides chemical names and descriptions. See the following tables for associated data: ConstituentLookUp ; FieldResEquipLookUp ; and FieldObsVarLookUp .				
Field Name	Data Type	Field Size	Description	
Group4	Text	30	Algaecides; AlkalineEarthMetals; CarbamatePest.; Chlorinated Phenols; Conventional; Endocrine Disruptors; Fungicides; Herbicides; HMW_PAH; Insecticides; LMW_PAH; Metalloids; Nematocides; non-Chlorinated Phenols; OrganochlorinePest.; Organophosphate; Phenols; Pyrethroids; Semi-VOAs; Xylenes;	
Group5	Text	30	Acaricides; Algaecides; Brominated Phenols; Endocrine Disruptors; Fungicides; Germicides; Herbicides; Insecticides; Nematocides; Nitrophenols; Rodenticides; Semi-VOAs; Surfactants; VOAs	
Group6	Text	30	Chlordanes; DDTs; Endocrine Disruptors; Endosulfans; Endrins; Fungicides; Insecticides; Nematocides; Pesticides; Rodenticides; VOAs	
Group7	Text	30	Used in queries to enable user to group by analyst.	
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.	
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.	
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.	
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.	

Table Name: BatchVerificationLookUp		Current Number of Records: 9	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides Batch Verification information. There are no other tables that have associated data in CANOD.			
Field Name	Data Type	Field Size	Description
BatchVerificationRowID	AutoNumber	Replication ID	This is the Primary Key. Unique Row Identifier; generated from within database.
BatchVerificationCode	Text	10	Code of batch verification
BatchVerificationName	Text	50	Name of batch verification
BatchVerificationDescription	Text	255	Description of batch verification
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicCollection		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the methods as which the samples were collected. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicCollection Entry for data and associated tables.			
Field Name	Data Type	Field Size	Description
BenthicCollectionDetailRowID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database.
LocationRowID	Number	ReplicationID	Unique Row Identifier; generated from within database.
CollectionTime	Date/Time	Short Time	Time sample was collected.
CollectionMethodCode	Number	Number	ID of the equipment used from CollectionDeviceLookup
CollectionDepth	Text	20	Depth at which analytical sample was collected; units in meters; -88 if integrated sample or intertidal qualitative sample.
UnitCollectionDepth	Text	2	The unit of the collection.
SampleTypeCode	Text	20	Say whether it's qualitative or a quantitative grab, clearing, grain size, scoop, etc.
SeiveSize	Text	50	The largest sieve size used.
Replicate	Number	Integer	The number of replicate samples taken.
IDORG	Text	50	A unique four-digit number given to every sample taken at every station.

Table Name: BenthicCollection		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the methods as which the samples were collected. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicCollection Entry for data and associated tables.			
Field Name	Data Type	Field Size	Description
BenthicCollectionComments	Text	255	Comments on samples at the IDORG collection level.
CollectionComplete	Yes/No	Yes/No	Check box to indicate if the collection was completed.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicCollection_Entry		Current Number of Records: 5,396	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the methods as which the samples were collected. See the following tables for associated data in CANOD: BenthicCollectionDetail_Entry ; BenthicResult_Entry ; CollectionMethodLookUp ; CollectionDeviceLookup ; Location_Entry ; and SampleTypeLookUp ;			
Field Name	Data Type	Field Size	Description
BenthicCollectionDetailRowID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database. See BenthicCollectionDetail_Entry table and BenthicResult_Entry table for associated data.
LocationRowID	Number	ReplicationID	Unique Row Identifier; generated from within database. See Location_Entry table for associated data.
CollectionTime	Date/Time	Short Time	Time sample was collected.
CollectionMethodCode	Text	50	See CollectionMethodLookUp table for associated data.
CollectionDeviceCode	Number	Number	ID of the equipment used. See CollectionDeviceLookUp table for associated data.
CollectionDepth	Text	20	Depth at which analytical sample was collected; units in meters; -88 if integrated sample or intertidal qualitative sample.
UnitCollectionDepth	Text	2	The unit of the collection.

Table Name: BenthicCollection_Entry		Current Number of Records: 5,396	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the methods as which the samples were collected. See the following tables for associated data in CANOD: BenthicCollectionDetail_Entry ; BenthicResult_Entry ; CollectionMethodLookUp ; CollectionDeviceLookup ; Location_Entry ; and SampleTypeLookUp ;			
Field Name	Data Type	Field Size	Description
SampleTypeCode	Text	20	Say whether it's qualitative or a quantitative grab, clearing, grain size, scoop, etc. See SampleTypeLookUp table for associated data.
SeiveSize	Text	50	The largest sieve size used.
Replicate	Number	Integer	This field provides the number of replicate samples taken.
IDORG	Text	50	A unique four-digit number given to every sample taken at every station.
BenthicCollectionComments	Text	255	Comments on samples at the IDORG collection level.
CollectionComplete	Yes/No	Yes/No	Check box to indicate if the collection was completed.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicCollectionDetail		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a more detailed look at benthic collection. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicCollection Detail Entry table for data and associated tables.			
Field Name	Data Type	Field Size	Description
BenthicCollectionDetailRow ID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database.
BenthicCollectionRowID	Number	ReplicationID	Unique Row Identifier; generated from within database.
GrabSize	Number	Double	The size of the area taken in a grab sample (0.02, 0.05, 0.1, etc).
UnitsGrabSize	Number	Integer	Describes the size or unit of the grab sample.
HabitatTypeCode	Text	50	Descriptive name for the type of habitat sampled from
ReplicateName	Text	20	Descriptive name for the replicate, if applicable; e.g., Transect 1 or T-1
SubstrateType	Text	50	Descriptive name for the type of substrate sample was collected on (ie: wood, metal, concrete, etc)
ReplicateCollectionDate	Date/Time	Short Date	By default, it should be the same as the sample collection date. This is for those times when the “reps” were collected on different dates, in deviation from the protocol

Table Name: BenthicCollectionDetail		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a more detailed look at benthic collection. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicCollection Detail Entry table for data and associated tables.			
Field Name	Data Type	Field Size	Description
FieldFixture	Text	50	Name of the chemical the sample was fixed in right after collecting it in the field. i.e.: 10% formalin, 90-95% ethanol, 70% isopropyl alcohol, etc.
Gen_BenthicCollectionDetailComments	Number	Long Integer	These are valid for replication but they are created by the database itself.
MagChlorideUsed	Yes/No	Yes/No	MagChloride is sometimes used to relax specimens before fixing them.
BenthicCollectionDetailComments	Memo		Field notes that were taken for individual IDORGs; enter the habitat description for qualitative collections here as well.
Ben_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
Cen_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
Den_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicCollectionDetail		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a more detailed look at benthic collection. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicCollection Detail Entry table for data and associated tables.			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicCollectionDetail_Entry		Current Number of Records: 3,914	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a more detailed look at benthic collection. See the following tables for associated data: BenthicCollection_Entry ; HabitatTypeLookUp ; and UnitLookUp			
Field Name	Data Type	Field Size	Description
BenthicCollectionDetailRowID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database.
BenthicCollectionRowID	Number	ReplicationID	Unique Row Identifier; generated from within database. See BenthicCollection_Entry table for associated data.
GrabSize	Number	Double	Size of grab sample.
UnitsGrabSize	Number	Integer	Units for the grab sample. See UnitLookUp table for associated data.
FlowmeterStart	Number	Long Integer	The number reading on the flow meter at the start of the tow.
FlowmeterEnd	Number	Long Integer	The number reading on the flow meter at the end of the tow.
VolumeSampled	Text	50	The volume the sample was take in.
UnitsVolumeSampled	Number	Integer	The units of the volume sampled.
HabitatTypeCode	Text	50	See HabitatTypeLookUp table for associated data. Descriptive name for the type of habitat sampled from
ReplicatedName	Text	20	Descriptive name for the replicate, if applicable; e.g., Transect 1 or T-1

Table Name: BenthicCollectionDetail_Entry		Current Number of Records: 3,914	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a more detailed look at benthic collection. See the following tables for associated data: BenthicCollection_Entry ; HabitatTypeLookUp ; and UnitLookUp			
Field Name	Data Type	Field Size	Description
SubstrateType	Text	50	Descriptive name for the type of substrate sample was collected on (i.e.: wood, metal, concrete, etc)
ReplicateCollectionDate	Date/Time	Date/Time	By default, it should be the same as the sample collection date. This is for those times when the "reps" were collected on different dates, in deviation from the protocol
FieldFixative	Text	50	Name of the chemical the sample was fixed in right after collecting it in the field. i.e.: 10% formalin, 90-95% ethanol, 70% isopropyl alcohol, etc.
Gen_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
MagChlorideUsed	Yes/No	Yes/No	MagChloride is sometimes used to relax specimens before fixing them
Aen_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
BenthicCollectionDetailComments	Memo	Memo	Field notes that were taken for individual IDORGs; enter the habitat description for qualitative collections here as well.

Table Name: BenthicCollectionDetail_Entry		Current Number of Records: 3,914	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a more detailed look at benthic collection. See the following tables for associated data: BenthicCollection_Entry ; HabitatTypeLookUp ; and UnitLookUp			
Field Name	Data Type	Field Size	Description
Ben_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
Cen_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
Den_BenthicCollectionDetailComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
s_ColLineage	OLE Object	OLE Object	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	OLE Object	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicResults		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the individual taxa collected. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicResults_Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
BenthicResultRowID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database.
BenthicCollectionRowID	Number	ReplicationID	Foreign key to the table Sample_Entry. Unique Row Identifier; generated from within database.
OrganismCode	Number	Long Integer	Foreign key to the table OrganismLookUp
LifeStageCode	Text	5	Foreign key to the table LifeStageLookUp
Distinct	Yes/No	Yes/No	Indicator of whether this is a distinct (yes) or non-distinct taxon;
Count	Number	Long Integer	Indicates the number of individuals of a given taxa id and stage that were identified with in a sample replicate.
TotalCount	Number	Long Integer	This is the taxonomist's final count adjusted for any benthic lab sub-sampling and taxonomist sub-sampling. The final count includes all introduction statuses.
ResQualCode	Text	10	Text identifying the qualifier which describes the analytical result.
TaxCDCCode	Text	50	An alpha representing the taxonomist's justification for not identifying a specimen to standard effort.

Table Name: BenthicResults		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the individual taxa collected. It is not populated at this time and is associated with the "permanent" side of the database. See BenthicResults Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
QACode	Text	30	The QACode is applied to the result to describe any special conditions, situations or outliers that occurred during or prior to the analysis to achieve the result. <u>SWAMP Business Rule:</u> The default code, indicating no special conditions, is None. If more than one code should be applied to a record, the convention is to list them in alphabetical order separated by commas and no spaces (i.e. GB, SC).
PersonnelCode	Text	50	Taxonomist that identified the specific organism. Last name first, First name initial second. See PersonnelLookUp table for associated data.
EnterDate	Date/Time	Date/Time	Date when data was entered.
subIDORG	Text	50	SubIDORG sent to the taxonomist split of IDORG by taxonomic group.
BenthicResultComments	Text	255	Comments related to the individual taxa count or data at the subIDORG level.

Table Name: BenthicResults		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the individual taxa collected. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicResults_Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicResult_Entry		Current Number of Records: 55,513	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the individual taxa collected. See the following tables for associated data: BenthicCollection_Entry ; BenthicResultDetail_Entry ; LifeStageLookUp ; OrganismLookUp ; PersonnellLookUp ; QALookUp ; and TaxCDLookUp .			
Field Name	Data Type	Field Size	Description
BenthicResultRowID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database. See BenthicResultsDetail_Entry table for associated data.
BenthicCollectionRowID	Number	ReplicationID	Foreign key to the table Sample_Entry. Unique Row Identifier; generated from within database. See BenthicCollection_Entry table for associated data.
OrganismCode	Number	Long Integer	c
LifeStageCode	Text	5	See LifeStageLookUp table for associated data.
Distinct	Yes/No	Yes/No	Indicator of whether this is a distinct (yes) or non-distinct taxon.
Count	Number	Long Integer	Indicates the number of individuals of a given taxa identified and stage that were identified with in a sample replicate.

Table Name: BenthicResult_Entry		Current Number of Records: 55,513	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the individual taxa collected. See the following tables for associated data: BenthicCollection_Entry ; BenthicResultDetail_Entry ; LifeStageLookUp ; OrganismLookUp ; PersonnelLookUp ; QALookUp ; and TaxCDLookUp .			
Field Name	Data Type	Field Size	Description
TotalCount	Number	Long Integer	this is the taxonomist's final count adjusted for any benthic lab subsampling and taxonomist subsampling; we only require a count for non-native, quantitative specimens; TotalCount = ([Count]) x (100/[%Sample Counted])
ResQualCode	Text	10	Text identifying the qualifier which describes the analytical result.
TaxCDCCode	Text	50	An alpha character representing the taxonomist's justification for not identifying a specimen to standard effort. See TaxCDLookUp table for associated data.

Table Name: BenthicResult_Entry		Current Number of Records: 55,513	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the individual taxa collected. See the following tables for associated data: BenthicCollection_Entry ; BenthicResultDetail_Entry ; LifeStageLookUp ; OrganismLookUp ; PersonnelLookUp ; QALookUp ; and TaxCDLookUp .			
Field Name	Data Type	Field Size	Description
QACode	Text	30	<p>The QACode is applied to the result to describe any special conditions, situations or outliers that occurred during or prior to the analysis to achieve the result. See QALookUp table for associated data.</p> <p><u>SWAMP Business Rule:</u> The default code, indicating no special conditions, is None. If more than one code should be applied to a record, the convention is to list them in alphabetical order separated by commas and no spaces (i.e. GB, SC).</p>
PersonnelCode	Text	50	Taxonomist responsible for this entry. Taxonomist that identified the specific organism. Last name first, First name initial second. See PersonnelLookUp table for associated data.
EnterDate	Date/Time	Date/Time	Date when data was entered.
subIDORG	Text	50	SubIDORG sent to the taxonomist split of IDORG by taxonomic group

Table Name: BenthicResult_Entry		Current Number of Records: 55,513	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the individual taxa collected. See the following tables for associated data: BenthicCollection_Entry ; BenthicResultDetail_Entry ; LifeStageLookUp ; OrganismLookUp ; PersonnellLookUp ; QALookUp ; and TaxCDLookUp .			
Field Name	Data Type	Field Size	Description
BenthicResultComments	Text	255	Comments related to the individual taxa count or data at the subIDORG level.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicResultDetail		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details of the habitat the species was collected from. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicResultsDetail Entry table for data and associated tables in CANOD.			
Field Name	Data Type	Field Size	Description
BenthicResultDetailRowID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database.
BenthicResultRowID	Number	ReplicationID	Unique Row Identifier; generated from within database.
PercentSampleCounted	Number	Double	Percent of samples counted.
SplitMethodCode	Number	Integer	Code of Split Method. Code for combination of methods used to split the sample into sub-IDORGs; from SplitMethodLookUp Table.
HabitatDescription	Text	255	Description of the habitat the species was observed in; for the most part, this will only apply to non-native sightings.
ObservedAbundance	Text	50	This is for field-identified non-natives. Date is on a field datasheet – say whether rare, common or abundant. We did not note abundances of native species.
AbundanceObserver	Text	150	Names of people who made this observation, using personnel codes from lookup table.
FirstObservations	Text	50	Used for recording first observations of an ID from location or depth.

Table Name: BenthicResultDetail		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details of the habitat the species was collected from. It is not populated at this time and is associated with the “permanent” side of the database. See BenthicResultsDetail Entry table for data and associated tables in CANOD.			
Field Name	Data Type	Field Size	Description
BenthicResultsDetailComments	Text	255	Comments in regards to the benthic results detail.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: BenthicResultDetail_Entry		Current Number of Records: 55,513	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details of the habitat the species was collected from. It is not populated at this time. See BenthicResult_Entry table and SplitMethodLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
BenthicResultDetailRowID	AutoNumber	ReplicationID	This is the primary key. Unique Row Identifier; generated from within database.
BenthicResultRowID	Number	ReplicationID	Unique Row Identifier; generated from within database. See BenthicResult_Entry table for associated data.
PercentSampleCounted	Number	Double	The percent of samples counted.
SplitMethodCode	Number	Integer	Code for combination of methods used to split the sample into sub-IDORGs, from SplitMethodLookUp list. See SplitMethodLookUp table for associated data.
HabitatDescription	Text	255	Description of the habitat the species was observed in; for the most part, this will only apply to non-native sightings.
ObservedAbundance	Text	50	This is for field-identified non-natives. Date is on a field datasheet – say whether rare, common or abundant. We did not note abundances of native species.
AbundanceObserver	Text	150	Names of people who made this observation, using personnel codes from lookup table.

Table Name: BenthicResultDetail_Entry		Current Number of Records: 55,513	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details of the habitat the species was collected from. It is not populated at this time. See BenthicResult_Entry table and SplitMethodLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
FirstObservations	Text	50	Used for recording first observations of an ID from location or depth
BenthicResultsDetailComments	Text	255	Comments on benthic results detail.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: CollectionDeviceDetailLookUp		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table will provide a list of all possible collection devices used when on a survey. See CollectionDeviceLookUp for associated data.			
Field Name	Data Type	Field Size	Description
CollectionDeviceDetailsRowsID	AutoNumber	Replication ID	Primary key. Unique Row Identifier; generated from within database.
CollectionDeviceRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See CollectionDeviceLookUp for associated data.
AnalyteName	Text	225	The AnalyteName is the name of the analyte or parameter for which the analysis is conducted and result is reported. The lookup list includes the acceptable abbreviation or name of the variable used by the database, enabling consistency across reporting.
CollectionDeviceDetail	Text	50	Details on the collection device.
UnitCollectionDeviceDetail	Text	50	Details on the unit collection device.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: CollectionDeviceDetailLookUp		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table will provide a list of all possible collection devices used when on a survey. See CollectionDeviceLookUp for associated data.			
Field Name	Data Type	Field Size	Description
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: CollectionDeviceLookUp		Current Number of Records: 24	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a detailed list of collection devices used when on a survey. See the following tables for associated data: BenthicCollection ; CollectionDeviceDetailLookUp ; FieldResEquipLookUp ; FieldResult_Entry ; and LabCollection_Entry			
Field Name	Data Type	Field Size	Description
CollectionDeviceRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database. See CollectionDeviceDetailLookUp tables for associated data.
CollectionDeviceCode	Number	Integer	This is a code associated with collection devices used during sampling. See BenthicCollection_Entry table; FieldResult_Entry table; and LabCollection_Entry table for associated data.
CollectionDeviceName	Text	255	This is the name of the collection device. See FieldResEquipLookUp table for associated data.
CollectionDeviceDescr	Text	100	This provides a description of the device.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
SerialNumber	Text	30	This field is not populated at this time.
CollectionMatrix	Text	50	Describes the type of collection.
CollectionDeviceType1	Text	50	If device is used in ISS collections.

Table Name: CollectionDeviceLookUp		Current Number of Records: 24	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a detailed list of collection devices used when on a survey. See the following tables for associated data: BenthicCollection ; CollectionDeviceDetailLookUp ; FieldResEquipLookUp ; FieldResult_Entry ; and LabCollection_Entry			
Field Name	Data Type	Field Size	Description
CollectionDeviceType2	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab, Tox, Field, etc). The above would be true for all type fields.
CollectionDeviceType3	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab
CollectionDeviceType4	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab
CollectionDeviceComments	Text	255	This field is not populated at this time
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: CollectionDeviceLookUp		Current Number of Records: 24	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a detailed list of collection devices used when on a survey. See the following tables for associated data: BenthicCollection ; CollectionDeviceDetailLookUp ; FieldResEquipLookUp ; FieldResult_Entry ; and LabCollection_Entry			
Field Name	Data Type	Field Size	Description
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: CollectionMethodLookUp		Current Number of Records: 26	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of the different methods of collecting samples. See BenthicCollection_Entry table; FieldCollection_Entry table and LabCollection_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
CollectionMethodRowID	AutoNumber	Replication ID	Primary key. Unique Row Identifier; generated from within database.
CollectionMethodCode	Text	50	Code used for collection method. See BenthicCollection_Entry table; FieldCollection_Entry table and LabCollection_Entry table for associated data.
CollectionMethodName	Text	255	Was ShortName. The collection method's title.
CollectionMethodDescr	Text	255	This field is not populated at this time.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
CollectionMethodType1	Text	50	Lab, Field, BA, IT, ISS
CollectionMethodType2	Text	50	Lab, Field, BA, IT, ISS
CollectionMethodType3	Text	50	This field is not populated at this time. - Lab, Field, BA, IT, ISS
CollectionMethodType4	Text	50	This field is not populated at this time. - Lab, Field, BA, IT, ISS
CollectionMethodLink	Hyperlink	--	This field is not populated at this time. There is no valid definition at this time.
CollectionMethodComments	Text	255	This field is not populated at this time.
Gen_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: CollectionMethodLookUp		Current Number of Records: 26	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of the different methods of collecting samples. See BenthicCollection Entry table; FieldCollection Entry table and LabCollection Entry table for associated data.			
Field Name	Data Type	Field Size	Description
Aen_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Ben_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Cen_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Den_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Een_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Fen_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: ComplianceLookUp		Current Number of Records: 5	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of different sources of quality control. For example, QAPP. See FieldResults_Entry table and LabResults_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
ComplianceLooUp	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
ComplianceCode	Text	25	Code for compliance type. See FieldResults_Entry table and LabResults_Entry table for associated data.
ComplianceName	Text	255	Name for compliance type.
ComplianceDescr	Text	255	Description of compliance type.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
ComplianceType1	Text	25	This field is currently not populated. There is a pull down menu with the following choices are Lab, field, TOX, TI , BA
ComplianceType2	Text	25	This field is currently not populated. There is a pull down menu with the following choices are Lab
Compliance Type 3	Text	25	This field is currently not populated. There is a pull down menu with the following choices are Lab
ComplianceType4	Text	25	This field is currently not populated. There is a pull down menu with the following choices are Lab

Table Name: ComplianceLookUp		Current Number of Records: 5	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of different sources of quality control. For example, QAPP. See FieldResults Entry table and LabResults Entry table for associated data.			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: ConstituentLookUp		Current Number of Records: 2,876	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of sampling constituents. See the following tables for associated data: AnalyteLookUp ; FieldResults_Entry ; FractionLookUp ; LabResults_Entry ; MatrixLookUp ; MethodLookUp ; UnitLookUp			
Field Name	Data Type	Field Size	Description
ConstituentRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database. See FieldResults_Entry table and LabResults_Entry table for associated data.
ConstituentCode	Text	20	Code for constituent.
MatrixCode	Number	Integer	Code for the matrix. Ex: blank water, lab water, sample water, sediment, tissue, air etc. See MatrixLookUp for associated data.
MethodCode	Number	Integer	Code for Lab, Field, FieldObs, Habitat, Organism, TOX methods. See MethodLookUp table for associated data.
AnalyteCode	Number	Integer	Code for Analyte chemicals. See AnalyteLookUp table for associated data.
FractionCode	Number	Integer	Code for sample size. See FractionLookUp table for associated data.
UnitCode	Number	Integer	Code for sample units. See UnitLookUp table for associated data.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.

Table Name: ConstituentLookUp		Current Number of Records: 2,876	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of sampling constituents. See the following tables for associated data: AnalyteLookUp ; FieldResults Entry ; FractionLookUp ; LabResults Entry ; MatrixLookUp ; MethodLookUp ; UnitLookUp			
Field Name	Data Type	Field Size	Description
ConstituentType1	Text	50	This field is currently not populated. There is a pull down menu with the following choices are Lab, Field, FieldObs, Habitat, Organism, TOX
ConstituentType2	Text	50	This field is currently not populated. There is a pull down menu with the following choices are Lab
ConstituentType3	Text	50	This field is currently not populated. There is a pull down menu with the following choices are Lab
ConstituentType4	Text	50	This field is currently not populated. There is a pull down menu with the following choices are Lab
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: ContainerLookUp		Current Number of Records: 11	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information on the type of containers the sample was taken in. See CORCollection table for associated data.			
Field Name	Data Type	Field Size	Description
ContainerRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
ContainerCode	Number	Long Integer	Code for the container in which a sample is placed. Ex: gallon, liter, 250 ml, 500ml, etc. See CORCollection table for associated data.
ContainerName	Text	50	Name of container that holds samples. Ex: gallon, liter, 250 ml, 500ml, etc.
ContainerDescription	Text	250	Description of container.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: CORCollection		Current Number of Records: 3,518	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides tracking information and details on sample types. See the following tables for associated data: AgencyLookup ; ContainerLookUp ; and CORResults .			
Field Name	Data Type	Field Size	Description
CORCollectionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database. See CORResults table for associated data.
IDORG	Text	50	A unique four-digit number given to every sample taken at every station.
Replicate	Number	Integer	The number of replicate samples taken for each SampleTypeCode.
SampleTypeCode	Text	20	Say whether it's qualitative or a quantitative grab, clearing, grain size, scoop, etc.
SortingAgencyCode	Text	50	All qualitative samples that are sent directly to the taxonomist have a SortingAgencyCode of "MPSL-ISS". See AgencyLookUp table for associated data.
DateSentSortingAgency	Date/Time	dd/mm/yyyy	Date IDORG sent out to be sorted (for example, to benthic lab for sorting; qualitative samples sent directly to taxonomists get date of 1/1/1950 in this table)
NumberContainers	Number	Integer	Number of jars into which the sample fit for transport to the analytical lab; default value is one.

Table Name: CORCollection		Current Number of Records: 3,518	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides tracking information and details on sample types. See the following tables for associated data: AgencyLookup ; ContainerLookUp ; and CORResults .			
Field Name	Data Type	Field Size	Description
ContainerCode	Number	Integer	Such as liter, gallon, zip-lock baggie, etc. See ContainerLookUp table for associated data.
NumberofAlgaePages	Number	Integer	Applies only to qualitative samples; this is the number of pages we have qualitative algae samples pressed on for that IDORG
CORCollectionComments	Text	255	Comments on sampling complications and archiving.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: CORResults		Current Number of Records: 15,415	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides results and addition information the samples collected. See the following tables for associated data: CORCollection ; and SampleDestinationTypeLookUp			
Field Name	Data Type	Field Size	Description
CORResultsRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database. See CORCollection table for associated data.
CORCollectionRowID	Number	Replication ID	Unique Row Identifier; generated from within database.
subIDORG	Text	12	A unique number assigned to each sample container we get back from either 1) The benthic lab, 2) Our qualitative collections field sorting procedure; at this point, samples have been sorted into at least phylum.
Taxa	Text	50	The phylum (or more specific type of organism) that is in the container (not using a lookup list for this field)
SplitMethodCode	Number	Integer	Code for combination of methods used to split the sample into sub-IDORGs, from SplitMethodLookUp list.
SortingJarReceivedDate	Date/Time	dd/mm/yyyy	The date we received sorted sample back from benthic lab; if not received yet or if qualitative sample, enter 1/1/1950
SortingDataReceivedDate	Date/Time	dd/mm/yyyy	The date we received data for benthic lab sort back from benthic lab; if not received yet or if qualitative sample, enter 1/1/1950

Table Name: CORResults		Current Number of Records: 15,415	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides results and addition information the samples collected. See the following tables for associated data: CORCollection ; and SampleDestinationTypeLookUp			
Field Name	Data Type	Field Size	Description
SentTaxDate	Date/Time	dd/mm/yyyy	Date sent to taxonomist
SentTax	Text	50	Enter "yes" if sent, "no" if not yet sent, or "never" if it will never be sent (ex. Mytilus archived for genetic analysis).
PersonnelCode	Text	50	Name of taxonomist; when uploading BenthicLab split method data, create a field in excel and enter TaxName before uploading here; if not sending to a taxonomist enter "MPSL-ISS", "None" or "Not Applicable"
COCUsedTax	Yes/No	Yes/No	Was a COC used when transferring sample to taxonomist?
DataReceivedTaxDate	Date/Time	dd/mm/yyyy	Date data received from taxonomist
SampleReturnTaxDate	Date/Time	dd/mm/yyyy	Date sample was returned from taxonomist
SampleDestinationTypeCode	Text	10	Describes where we are storing the sample. Options include archive collection (A), voucher collection (V), discarded (D) if discarded because was qualitative, genetic analysis pending (G) or Not Recorded (NR) if the sample has not been returned yet. Values found in VariablesCodeLookUp. See SampleDestinationTypeCode for associated data.

Table Name: CORResults		Current Number of Records: 15,415	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides results and addition information the samples collected. See the following tables for associated data: CORCollection ; and SampleDestinationTypeLookUp			
Field Name	Data Type	Field Size	Description
SampleDestinationLocation	Text	50	The name of the agency where the sample is being stored and archived.
SampleDestinationBoxID	Text	50	This is the number or name of the box where the sample is being stored
ShelfUnit	Text	50	This is the number of name of the shelf unit where the sample is being stored
ShelfNumber	Text	50	This is the number of the shelf where the sample is being stored
CORResultsComments	Memo		Comments about the subIDORG or the name of the species if vouchered. There is also a new column titled SampleDestinationComments for comments related to where the sample is stored and archived.
Gen_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Aen_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Ben_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
Cen_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: CORResults		Current Number of Records: 15,415	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides results and addition information the samples collected. See the following tables for associated data: CORCollection ; and SampleDestinationTypeLookUp			
Field Name	Data Type	Field Size	Description
Den_CollectionMethodLink	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Corrections		Current Number of Records: 2,747	As of : 08/17/09
Notes: MLML currently has control over this table. This table contains details on corrections made to data in CANOD. There are no associated tables with this table.			
Field Name	Data Type	Field Size	Description
Person	Text	50	Name of author that made correction to CANOD.
AssociatedAgency	Text	50	State whether CDFG or MLML made changes to CANOD.
Date	Date/Time	Date/Time	Date correction was made.
DatabaseSide	Text	4	Temporary or Permanent side of Database.
TableName	Text	50	Table correction was made in.
FieldName	Text	30	Field of the table the correction was made in.
OrganismCode	Text	100	Organism code correction was made too.
OriginalData	Text	150	This field shows what the original data was before it was changed.
ChangedData	Text	150	This field shows what the data was changed to.
Global	Yes/No	Yes/No	Always "0"
CorrectionsComments	Text	255	Comments as to why correction was made.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: Corrections		Current Number of Records: 2,747	As of : 08/17/09
Notes: MLML currently has control over this table. This table contains details on corrections made to data in CANOD. There are no associated tables with this table.			
Field Name	Data Type	Field Size	Description
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: DigestExtractLookUp		Current Number of Records: 24	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of the different digest extraction methods. See LabResult_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
DigestExtractRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
DigestExtractCode	Number	Integer	Code for Digest Extract. See LabResults_Entry table for associated data.
DigestExtractMethod	Text	255	The source of the DigestExtractMethod data.
DigestExtractDescr	Text	255	Description of Digest Extract
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
DigestExtractType	Text	15	This field is current not populated. Used in queries and forms to limit output to a subset of results.
DigestExtractInstrument	Text	75	This field is currently not populated. Instrument described in the method.
MethodOnFile	Text	50	Indicates if the method is on file, in what format and where it is located.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: EventLookUp		Current Number of Records: 4	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on four different data groupings. Water Quality, Tissue Analysis, Introduced Species Studies and Bioassessment. See Sample Entry table for associated data.			
Field Name	Data Type	Field Size	Description
EventRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
EventCode	Text	20	Event code for data grouping. See Sample_Entry table for associated data.
EventName	Text	255	Name of event for data grouping, Ex: Water Quality, Tissue Analysis, Introduced Species Studies or Bioassessment.
EventDescr	Text	255	Description of event
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
EventComments	Text	255	This field is currently not populated. Comments on data groupings.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FieldCollection		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information on field collection methods. It is not populated at this time and is associated with the “permanent” side of the database. See FieldCollection_Entry for data and associated tables.			
Field Name	Data Type	Field Size	Description
FieldCollectionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
LocationRoID	Number	Replication ID	Unique Row Identifier; generated from within database.
CollectionTime	Date/Time	Short Time	Time sample was collected.
CollectionMethodCode	Text	50	Code for collection method.
CollectionDepth	Number	Double	Depth sample was collected at; “-88” is used for intertidal qualitative collections.
UnitCollectionDepth	Text	2	Units of collection.
Replicate	Number	Long Integer	Number of duplicate samples.
PositionWaterColumn	Text	20	Category of position in water column where sample was taken; subsurface, mid-depth, near bottom, NA for not applicable, Not Recorded; From VariableCodesLookUp
FieldCollectionComments	Text	255	Comments of field collections.
BatchVerificationCode	Text	10	Code for batch verification.
CollectionComplete	Yes/No	Yes/No	Check box for whether collection was complete.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FieldCollection		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information on field collection methods. It is not populated at this time and is associated with the “permanent” side of the database. See FieldCollection Entry for data and associated tables.			
Field Name	Data Type	Field Size	Description
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FieldCollection_Entry		Current Number of Records: 457	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information on field collection methods. See CollectionMethodLookUp table; FieldResults_Entry table; and Location_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
FieldCollectionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database. See FieldCollection_Entry for associated data.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See Location_Entry table for associated data.
CollectionTime	Date/Time	Short Time	Time field samples were collected.
CollectionMethodCode	Text	50	Method field samples were collected. See CollectionMethodLookUp table for associated data.
CollectionDepth	Number	Double	Depth sample was collected at; "-88" is used for qualitative intertidal collections
UnitCollectionDepth	Text	2	Units
Replicate	Number	Long Integer	Number of duplicates taken of sample.
PositionWaterColumn	Text	20	Category of position in water column where sample was taken; subsurface, mid-depth, near bottom, NA for not applicable, Not Recorded; From VariableCodesLookUp
FieldCollectionComments	Text	255	This field is not populated at this time. Comments regarding field collection.
BatchVerificationCode	Text	10	This field is not populated at this time. Code for batch verification.
CollectionComplete	Yes/No	Yes/No	Nothing is currently active.

Table Name: FieldCollection_Entry		Current Number of Records: 457	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information on field collection methods. See CollectionMethodLookUp table; FieldResults_Entry table; and Location_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FieldObsVarLookUp		Current Number of Records: 152	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible field conditions when sampling. See AnalyteLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
FieldObsVarRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
AnalyteName	Text	255	Ex: beach angle; color; order; composition; current; etc. See AnalyteLookUp table for associated data.
ValueCode	Text	50	Code for value.
ValueCodeDescr	Text	255	The description of the value code.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
FieldObsVarType 1	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab, Tox, Field, etc). The above would be true for all type fields.
FieldObsVarType 2	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab
FieldObsVarType 3	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab

Table Name: FieldObsVarLookUp		Current Number of Records: 152	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible field conditions when sampling. See AnalyteLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FieldResEquipLookUp		Current Number of Records: 34	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible field equipment devices. See AnalyteLookUp table and CollectionDeviceLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
FieldResEquipLookUp	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
CollectionDeviceName	Text	255	Not Recorded; ObservedFieldMeasure; Other. See CollectionDeviceLookUp table for associated data.
AnalyteName	Text	255	Ex: Aquatic Life; Biohazard; dumping; glass, metal; pH; plastic; salinity; etc. . See AnalyteLookUp table for associated data.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FieldResult		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See FieldResult Entry for data and associated tables. This table provides detailed information regarding field results.			
Field Name	Data Type	Field Size	Description
FieldResultRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
FieldCollectionRowID	Number	Replication ID	Unique Row Identifier; generated from within database. Foreign key to the table FieldCollection_Entry
ConstituentRowID	Number	Replication ID	Unique Row Identifier; generated from within database. Foreign key to the table ConstituentLookUp - Part of unique constraint
FieldReplicate	Number	Integer	Field replicate number use to distinguish between multiple field measurements
Result	Number	Double	Numeric result of probe or kit measurement
VariableResult	Text	80	Result that is text and derived from a variable list of options.

Table Name: FieldResult		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See FieldResult Entry for data and associated tables. This table provides detailed information regarding field results.			
Field Name	Data Type	Field Size	Description
QACode	Text	30	<p>The QACode is applied to the result to describe any special conditions, situations or outliers that occurred during or prior to the analysis to achieve the result.</p> <p><u>SWAMP Business Rule:</u> The default code, indicating no special conditions, is None. If more than one code should be applied to a record, the convention is to list them in alphabetical order separated by commas and no spaces (i.e. GB, SC).</p>
ComplianceCode	Text	25	Use codes from ComplianceLookUp
ResQualCode	Text	10	Text identifying the qualifier which describes the analytical result
CollectionDeviceCode	Number	Integer	Code for the device used to make the measurement
CalibrationDate	Date/Time	Short Date	Date of most recent calibration; expressed as dd/mm/yyyy
BatchVerificationCode	Text	10	<p>BatchVerificationCode is a unique code referencing the Verification of a Batch.</p> <p><u>SWAMP Business Rule:</u> When editing data and the BatchVerificationCode is not NR, contact your liaison.</p>

Table Name: FieldResult		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See FieldResult Entry for data and associated tables. This table provides detailed information regarding field results.			
Field Name	Data Type	Field Size	Description
FieldResultComments	Text	255	Additional comments relating to Field Results
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FieldResult_Entry		Current Number of Records: 1,758	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information regarding field results. See the following tables for associated data: CollectionDeviceLookUp ; ComplianceLookUp ; ConstituentLookUp ; FieldCollection_Entry ; ResQualLookUp ; QALookUp			
Field Name	Data Type	Field Size	Description
FieldResultRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
FieldCollectionRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See the table FieldCollection_Entry for associated data.
ConstituentRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See the table ConstituentLookUp for associated data. Part of unique constraint
FieldReplicate	Number	Integer	Enter "1".
Result	Number	Double	Numeric Result of probe or kit measurement. This field is currently not populated.
VariableResult	Text	80	Result that is text and derived from a variable list of options.

Table Name: FieldResult_Entry		Current Number of Records: 1,758	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information regarding field results. See the following tables for associated data: CollectionDeviceLookUp ; ComplianceLookUp ; ConstituentLookUp ; FieldCollection_Entry ; ResQualLookUp ; QALookUp			
Field Name	Data Type	Field Size	Description
QACode	Text	30	<p>The QACode is applied to the result to describe any special conditions, situations or outliers that occurred during or prior to the analysis to achieve the result. See QALookUp table for associated data.</p> <p><u>SWAMP Business Rule:</u> The default code, indicating no special conditions, is None. If more than one code should be applied to a record, the convention is to list them in alphabetical order separated by commas and no spaces (i.e. GB, SC).</p>
ComplianceCode	Text	25	This field is currently not populated. See the ComplianceLookUp table for associated data.
ResQualCode	Text	10	This field is currently not populated. Text identifying the qualifier which describes the analytical result. See ResQualLookUp table for associated data.
CollectionDeviceCode	Number	Integer	Code for the device used to make the measurement. See CollectionDeviceLookUp table for associated data.
CalibrationDate	Date/Time	Short Date	Date of most recent calibration; expressed as dd/mm/yyyy

Table Name: FieldResult_Entry		Current Number of Records: 1,758	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information regarding field results. See the following tables for associated data: CollectionDeviceLookUp ; ComplianceLookUp ; ConstituentLookUp ; FieldCollection_Entry ; ResQualLookUp ; QALookUp			
Field Name	Data Type	Field Size	Description
BatchVerificationCode	Text	10	This field is currently not populated.
FieldResultComments	Text	255	Additional comments relating to Field Results
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FractionLookUp		Current Number of Records: 51	As of : 08/17/09
Notes: MLML currently has control over this table. This field provides a list of possible soil grain sizes. See ConstituentLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
FractionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
FractionCode	Number	Integer	Assigned code. See ConstituentLookUp table for associated data.
FractionName	Text	50	Fraction name.
FractionDescr	Text	50	Description of fraction name
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FundingAgenciesLookUp		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This field provides a list of agencies funding the sampling events. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See AgencyLookUp table and FundingLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
FundingAgenciesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
FundingCode	Text	8	Used to relate data to Task Orders; YYSWX### YY=Fiscal Year, SW=SWAMP, X=Regional Board, ###=Task Order. See FundingLookUp table for associated data.
AgencyCode	Text	20	Code of agency. See AgencyLookUp table for associated data.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
FundingAgenciesComments	Text	255	Comments on funding agencies.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: FundingLookUp		Current Number of Records: 12	As of : 08/17/09
Notes: MLML currently has control over this table. This field provides a list of surveys. For example: the Bays and Harbors survey or the San Francisco survey. See the following tables for associated data: FundingAgenciesLookUp ; FundingLookUp ; ProjectLookUp ; SampleFunding_Entry ; QAPPLookUp			
Field Name	Data Type	Field Size	Description
FundingRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
FundingCode	Text	8	Used to relate data to Task Orders; YYSWX### YY=Fiscal Year, SW=SWAMP, X=Regional Board, ###=Task Order. See FundingAgenciesLookUp table and SampleFunding_Entry table for associated data.
FundingName	Text	255	The abbreviated funding name.
FundingDescr	Text	255	Describes which survey the project funded.
ProjectCode	Text	25	Overriding Project name may have several ProjectIDs. No spaces in name. See ProjectLookUp table for associated data.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
QAPP/Code	Number	Integer	This field is not populated at this time. Unique code referencing the QAPP. See QAPPLookUp table for associated data.
DatabaseSide	Text	4	This field is not populated at this time. Describes which side of the database the data associated with the FundingCode is on.
Finalized	Yes/No	Yes/No	Used to assess if funded project is finalized.

Table Name: FundingLookUp		Current Number of Records: 12	As of : 08/17/09
Notes: MLML currently has control over this table. This field provides a list of surveys. For example: the Bays and Harbors survey or the San Francisco survey. See the following tables for associated data: FundingAgenciesLookUp ; FundingLookUp ; ProjectLookUp ; SampleFunding_Entry ; QAPPLookUp			
Field Name	Data Type	Field Size	Description
FundingComments	Text	255	This field is not populated at this time. Comments on funding.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Geometry		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides GPS coordinates for stations of survey sites. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See Geometry_Entry table for data and associated tables.			
Field Name	Data Type	Field Size	Description
GeometryRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database.
StationCode	Text	9	Code for station.
CoordinateSource	Text	50	Map, GPS
CoordinateNumber	Number	Integer	1 represents GeneralLocation/Upcoast, 2 represents Downcoast
CoordinateName	Text	50	Name of Coordinate number
Latitude	Number	Double	The latitude of station
Longitude	Number	Double	The longitude of station.
GPSFix	Text	2	Used with Bioassessment (2D or 3D)
GPSDeviceCode	Number	Long Integer	ID of the GPS equipment from GPSDeviceLookUp
GPSAccuracy	Text	50	Record accuracy of GPS
UnitGPSAccuracy	Text	50	Units associated with the GPS Accuracy
Within10SecondsOfMap	Yes/No	Yes/No	Used with Bioassessment
Datum	Text	10	Datum of the GPS used to record latitude and longitude (i.e. NAD83, WGS84)
Elevation	Number	Double	Elevation of station
UnitElevation	Text	2	Units in meters or feet
GeometryComments	Text	255	Comments of geometry and stations.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Geometry		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides GPS coordinates for stations of survey sites. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See Geometry Entry table for data and associated tables.			
Field Name	Data Type	Field Size	Description
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Geometry_Entry		Current Number of Records: 2,163	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides GPS coordinates for stations of survey sites. See GPSDeviceLookup table; Location_Entry table and StationLookup table.			
Field Name	Data Type	Field Size	Description
GeometryRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See Location_Entry table for associated data.
StationCode	Text	9	Code for stations. See StationLookup for associated data.
CoordinateSource	Text	50	Map, GPS
CoordinateNumber	Number	Integer	1 represents GeneralLocation/Upcoast, 2 represents Downcoast)
CoordinateName	Text	50	Name of Coordinate number
Latitude	Number	Double	Latitude of stations
Longitude	Number	Double	Longitude of stations
GPSFix	Text	2	This field is not populated at this time. Used with BioAssessment (2D or 3D)
GPSDeviceCode	Number	Long Integer	ID of the GPS equipment from GPSDeviceLookup. See GPSDeviceLookup for associated data.
GPSAccuracy	Text	50	Record accuracy of GPS
UnitGPSAccuracy	Text	50	Units associated with the GPS Accuracy
Within10SecondsOfMap	Yes/No	Yes/No	Used with BioAssessment
Datum	Text	10	A reference from which measurements are made. Datum of the GPS used to record latitude and longitude (ie. NAD83, WGS84)
Elevation	Number	Double	This field is not populated at this time. Elevation of station

Table Name: Geometry_Entry		Current Number of Records: 2,163	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides GPS coordinates for stations of survey sites. See GPSDeviceLookup table; Location_Entry table and StationLookUp table.			
Field Name	Data Type	Field Size	Description
UnitElevation	Text	2	This field is not populated at this time. Units in meters or feet
GeometryComments	Text	255	Comments on geometry and stations.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GPSDeviceLookUp		Current Number of Records: 23	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of GPS devices used in field surveys. See Geometry Entry for associated data.			
Field Name	Data Type	Field Size	Description
GPSDeviceRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
GPSDeviceCode	Number	Long Integer	"0" – "22". See Geometry_Entry for associated data.
GPSDeviceName	Text	255	Name of GPSDeviceID
GPSDeviceDescr	Text	255	Description on the GPS device.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
GPSDeviceComments	Text	255	This field is not populated at this time. Comments on the GPS device.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupGeometries		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See GroupGeometries Entry for associated data and tables.			
Field Name	Data Type	Field Size	Description
GroupGeometriesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
GroupCode	Number	Long Integer	Code for group.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database.
GroupGeometries	Text	255	There is no valid definition at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupGeometries_Entry		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. MLML is still deciding a course of action for this table. See GroupLookup table and Location_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
GroupGeometriesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
GroupCode	Number	Long Integer	Code for the groups. See GroupLookUp table for associated data.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See Location_Entry for associated data.
GroupGeometries	Text	255	There is no valid definition at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupLookUp		Current Number of Records: 39	As of : 08/17/09
Notes: OSPR currently has control over this table. This table provides a list of possible seasons and weather during a survey event. See the following tables for associated data: GroupGeometries_Entry ; GroupProjectLookUp ; GroupSamples_Entry ; GroupStationsLookUp .			
Field Name	Data Type	Field Size	Description
GroupRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
GroupCode	Number	Long Integer	"0" – "38". See the following tables for associated data: GroupGeometries_Entry ; GroupProjectLookUp ; GroupSamples_Entry ; GroupStationsLookUp .
GroupName	Text	255	Name/Description of group code.
GroupDescr	Text	255	This field is not populated at this time. Description of group.
GroupType 1	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab, Tox, Field, etc). The above would be true for all type fields.
GroupType 2	Text	50	This field is not populated at this time. Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab, Tox, Field, etc). The above would be true for all type fields.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.

Table Name: GroupLookUp		Current Number of Records: 39	As of : 08/17/09
Notes: OSPR currently has control over this table. This table provides a list of possible seasons and weather during a survey event. See the following tables for associated data: GroupGeometries Entry ; GroupProjectLookUp ; GroupSamples Entry ; GroupStationsLookUp .			
Field Name	Data Type	Field Size	Description
GroupComments	Text	255	This field is not populated at this time. Comments on the group name.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupOrganismIdentification		Current Number of Records: 1,513	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides the identification of the literature source of specific organisms. See OrganismLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
GroupOrganismIdentificationRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
OrganismCode	Number	Long Integer	CaLEDAS REPORTING REQUIREMENT - Non-intelligent, unique, sequentially assigned number identifying taxa. See OrganismLookUp table for associated data.
IdentificationSource	Text	255	The identification source used to identify a specific organism.
GroupOrganismIdentificationComments	Text	255	This field is not populated at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupOrganismPersonnel		Current Number of Records: 6,423	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides the taxonomist who identified specific organisms. See PersonnelLookUp table and OrganismLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
GroupOrganismPersonnelRow ID	Auto Number	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
OrganismCode	Number	Long Integer	CaLEDAS REPORTING REQUIREMENT - Non-intelligent, unique, sequentially assigned number identifying taxa. See OrganismLookUp table for associated data.
PersonnelCode	Text	50	Taxonomist that identified the specific organism. Last name first, First name initial second. See PersonnelLookUp table for associated data.
GroupOrganismPersonnel Comments	Text	255	Comments of group organism personnel.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupProjectsLookUp		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. MLML is still deciding a course of action for this table. See GroupLookUp table and ProjectLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
GroupProjectsRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
GroupCode	Number	Long Integer	Code for group project. See GroupLookUp table for associated data.
ProjectCode	Text	8	Code for project. See ProjectLookUp table for associated data.
GroupsProjectsDescr	Text	255	Describes “Groups Projects”.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupSamples		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. MLML is still deciding a course of action for this table. See GroupSamples Entry for associated data and tables.			
Field Name	Data Type	Field Size	Description
GroupSamplesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
GroupCode	Number	Long Integer	From Group_Lookup
SampleRowID	Number	Replication ID	Links record to the Sample Table
GroupSamplesComments	Text	255	Additional Comments regarding Sample Details
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupSamples_Entry		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. MLML is still deciding a course of action for this table. See GroupLookUp tables and Sample_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
GroupSamplesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
GroupCode	Number	Long Integer	See GroupLookUp table for associated data.
SampleRowID	Number	Replication ID	Identifier; generated from within database. See Sample_Entry table for associated data.
GroupSamplesComments	Text	255	Additional Comments regarding Sample Details
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: GroupStationLookUp		Current Number of Records: 0	As of : 08/17/09
Notes: SWAMP currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. MLML is still deciding a course of action for this table. See GroupLookUp table and StationLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
GroupsStationsRow ID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
GroupCode	Number	Long Integer	See GroupLookUp table for associated data.
StationCode	Text	9	See StationLookup table for associated data.
GroupsStationComments	Text	255	Additional Comments regarding Station Details
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: HabitatTypeLookUp		Current Number of Records: 31	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible habitats found at a sampling site. See BenthicCollectionDetail_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
Habitat ID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
HabitatTypeCode	Text	20	Code Defining habitat types. See BenthicCollectionDetail_Entry table for associated data.
HabitatTypeName	Text	50	Name of habitat
HabitatTypeDescription	Text	100	Describes the habitat of the sampling site.
Type1	Text	75	Example: benthic, intertidal, march, parasitic, subtidal, water column.
Type2	Text	75	Example: Hard substrate, soft substrate, mudflat, rock/cobble, brackish water, sand, etc.
Comments	Text	255	Additional Comments regarding Habitat Details
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LabBatch		Current Number of Records: 4	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on labs that process samples. See the following tables for associated data: AgencyLookUp ; LabResult Entry ; and LabSubmissionLookUp .			
Field Name	Data Type	Field Size	Description
LabBatchRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
LabBatch	Text	35	Code for all of the samples processed in the same batch. See LabResults_Entry table for associated data.
AgencyCode	Text	20	See AgencyLookUp table for associated data.
Submitting Agency	Text	20	SubmittingAgencyCode is the organization or agency that is responsible for submission of the data to the database. This agency may be different from LabAgencyCode if the analytical data were subcontracted to another agency.
LabSubmissionCode	Text	10	Batch qualifier. See LabSubmissionLookUp table for associated data.
BatchVerificationCode	Text	10	QA Officer validation
LabBatchComments	Text	250	Additional comments regarding Lab Batch.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LabCollection		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details on samples collected in the field. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See LabCollection Entry for associated data and tables.			
Field Name	Data Type	Field Size	Description
LabCollectionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database
CollectionTime	Date/Time	Short Time	Time the sample was collected.
CollectionMethodCode	Text	50	From CollectionMethodLookUp
SampleTypeCode	Text	20	From SampleTypeLookUp
CollectionDeviceCode	Number	Integer	ID of the equipment used from CollectionDeviceLookUp
CollectionDepth	Text	20	Depth at which analytical sample was collected; units in meters; intertidal qualitative samples are given a depth of -88.
UnitCollectionDepth	Text	2	Units for water events in meters; sediment events in cm
Replicate	Number	Integer	Number of duplicate samples taken. The replicate number of the grain size sample taken (in most cases this will always be "1" as only one grain size sample is taken per IDORG number with the exception of qualitative samples).

Table Name: LabCollection		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details on samples collected in the field. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See LabCollection Entry for associated data and tables.			
Field Name	Data Type	Field Size	Description
PositionWaterColumn	Text	20	Category of position in water column where sample was taken; subsurface, mid-depth, near bottom, NA for not applicable, Not Recorded; From VariableCodesLookUp
IDORG	Text	35	Sample identifier given by field crew. A unique four-digit number given to every sample taken at every station.
LabCollectionComments	Text	50	Comments on lab collection.
CollectionComplete	Yes/No	Yes/No	Whether collection was complete or not. This field is checked after the sample collection is complete.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LabCollection_Entry		Current Number of Records: 347	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details on samples collected in the field. See the following tables for associated data: CollectionMethodLookUp ; CollectionDeviceLookUp ; LabResults_Entry ; Location_Entry ; and SampleTypeLookUp table.			
Field Name	Data Type	Field Size	Description
LabCollectionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database. See LabResult_Entry table for associated data.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See Location_Entry table for associated data.
CollectionTime	Date/Time	Short Time	Time the sample was collected.
CollectionMethodCode	Text	50	See CollectionMethodLookUp table for associated data.
SampleTypeCode	Text	20	See SampleTypeLookUp table for associated data.
CollectionDeviceCode	Number	Integer	See CollectionDeviceLookUp table for associated data.
CollectionDepth	Text	20	Depth at which analytical sample was collected; units in meters; intertidal qualitative samples are given a depth of -88.
UnitCollectionDepth	Text	2	Units for water events in meters; sediment events in cm
Replicate	Number	Integer	Number of duplicate samples taken. The replicate number of the grain size sample taken (in most cases this will always be "1" as only one grain size sample is taken per IDORG number with the exception of qualitative samples).

Table Name: LabCollection_Entry		Current Number of Records: 347	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides details on samples collected in the field. See the following tables for associated data: CollectionMethodLookUp ; CollectionDeviceLookUp ; LabResults Entry ; Location Entry ; and SampleTypeLookUp table.			
Field Name	Data Type	Field Size	Description
PositionWaterColumn	Text	20	Category of position in water column where sample was taken; subsurface, mid-depth, near bottom, NA for not applicable, Not Recorded; From VariableCodesLookUp
IDORG	Text	35	Sample identifier given by field crew. A unique four-digit number given to every sample taken at every station.
LabCollectionComments	Text	50	Additional Comments regarding LabCollection Details
CollectionComplete	Yes/No	Yes/No	Whether the collection been completed or not.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LabResults		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information of the results of samples taken. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See LabResults_Entry table for associated data and tables.			
Field Name	Data Type	Field Size	Description
LabResultsRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
LabCollectionRowID	Number	Replication ID	Foreign key to the table LabCollection_Entry - Part of unique constraint
ConstituentRowID	Number	Replication ID	Foreign key to the table ConstituentLookUp - Part of unique constraint
LabBatch	Text	35	The code for all samples processed in the same batch - Part of unique constraint
LabReplicate	Number	Integer	Used to distinguish between splits created in the laboratory - Part of unique constraint
AnalysisDate	Date/Time	General Date	Date the sample was processed on the analytical instrument - Part of unique constraint
LabSampleID	Text	35	Unique Laboratory Identifier assigned by the Laboratory
PrepPreservationCode	Text	50	If applicable, supply Sample Preparation method used for samples. From PrepPerservationLookUp
PrepPreservationDate	Date/Time	dd/mm/yyyy	The date the preparation was started expressed as dd/mm/yyyy
DigestExtractCode	Number	Integer	Digestion or extraction from DigestionExtractLookUp
DigestExtractDate	Date/Time	General Date	The date the digestion or extraction was initiated; expressed as dd/mm/yyyy

Table Name: LabResults		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information of the results of samples taken. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See LabResults Entry table for associated data and tables.			
Field Name	Data Type	Field Size	Description
DilutionFactor	Number	Integer	Always recorded in % dilution
Result	Text	50	Numerical result; Non-detects are (-) actual detection limit; Detected but not Quantified (DNQ) results are reported as the actual value below the reporting limit
ResQualCode	Text	10	Text identifying the qualifier which describes the analytical result From ResQualLookUp
MDL	Text	50	Based on 40CFR136 definition
RL	Text	50	Defined by the individual laboratory
ComplianceCode	Text	25	From ComplianceLookUp
QACode	Text	30	<p>The QACode is applied to the result to describe any special conditions, situations or outliers that occurred during or prior to the analysis to achieve the result.</p> <p>SWAMP Business Rule: The default code, indicating no special conditions, is None. If more than one code should be applied to a record, the convention is to list them in alphabetical order separated by commas and no spaces (i.e. GB, SC).</p>

Table Name: LabResults		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information of the results of samples taken. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See LabResults Entry table for associated data and tables.			
Field Name	Data Type	Field Size	Description
ExpectedValue	Number	Double	QA Samples only. * Required for Matrix Spikes and Certified Reference Materials, and surrogates
LabResultComments	Text	255	Additional comments pertaining to chemistry results
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LabResults_Entry		Current Number of Records: 597	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information of the results of samples taken. See the following tables for associated data: ComplianceLookUp ; ConstituentLookup ; DigestExtratLookUp ; LabCollection_Entry ; PrepPreservationLookUp ; QALookUp ; and ResQualLookUp .			
Field Name	Data Type	Field Size	Description
LabResultsRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
LabCollectionRowID	Number	Replication ID	See LabCollection_Entry table for associated data. - Part of unique constraint
ConstituentRowID	Number	Replication ID	See ConstituentLookUp table for associated data - Part of unique constraint
LabBatch	Text	35	The code for all samples processed in the same batch - Part of unique constraint
LabReplicate	Number	Integer	Used to distinguish between splits created in the laboratory - Part of unique constraint
AnalysisDate	Date/Time	General Date	Date the sample was processed on the analytical instrument - Part of unique constraint
LabSampleID	Text	35	Unique Laboratory Identifier assigned by the Laboratory
PrepPreservationCode	Text	50	If applicable, supply Sample Preparation method used for samples. See PrepPerservationLookUp table for associated data
PrepPreservationDate	Date/Time	dd/mm/yyyy	The date the preparation was started expressed as dd/mm/yyyy
DigestExtractCode	Number	Integer	Digestion or extraction. See DigestionExtractLookUp table for associated data

Table Name: LabResults_Entry		Current Number of Records: 597	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information of the results of samples taken. See the following tables for associated data: ComplianceLookUp ; ConstituentLookup ; DigestExtratLookUp ; LabCollection Entry ; PrepPreservationLookUp ; QALookUp ; and ResQualLookUp .			
Field Name	Data Type	Field Size	Description
DigestExtractDate	Date/Time	General Date	The date the digestion or extraction was initiated; expressed as dd/mm/yyyy
DilutionFactor	Number	Integer	Always recorded in % dilution
Result	Text	50	Numerical result; Non-detects are (-) actual detection limit; Detected but not Quantified (DNQ) results are reported as the actual value below the reporting limit
ResQualCode	Text	10	Text identifying the qualifier which describes the analytical result. See ResQualLookUp table for associated data.
MDL	Text	50	Based on 40CFR136 definition
RL	Text	50	Defined by the individual laboratory
ComplianceCode	Text	25	See ComplianceLookUp table for associated data.

Table Name: LabResults_Entry		Current Number of Records: 597	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides detailed information of the results of samples taken. See the following tables for associated data: ComplianceLookUp ; ConstituentLookup ; DigestExtratLookUp ; LabCollection_Entry ; PrepPreservationLookUp ; QALookUp ; and ResQualLookUp .			
Field Name	Data Type	Field Size	Description
QACode	Text	30	<p>The QACode is applied to the result to describe any special conditions, situations or outliers that occurred during or prior to the analysis to achieve the result. See QALookUp table for associated data.</p> <p>SWAMP Business Rule: The default code, indicating no special conditions, is None. If more than one code should be applied to a record, the convention is to list them in alphabetical order separated by commas and no spaces (i.e. GB, SC).</p>
ExpectedValue	Number	Double	QA Samples only. Required for Matrix Spikes and Certified Reference Materials, and surrogates
LabResultComments	Text	255	Additional comments pertaining to chemistry results
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LabSubmissionLookUp		Current Number of Records: 10	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible lab testing conditions. See LabBatch table for associated data.			
Field Name	Data Type	Field Size	Description
LabSubmissionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
LabSubmissionCode	Text	10	See LabBatch table for associated data.
LabSubmissionName	Text	50	Name of Lab Submission
LabSubmissionDescr	Text	255	Description of LabSubmission name.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LifeStageLookUp		Current Number of Records: 5	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible life stages for specimens. See BenthicResult Entry table for associated data.			
Field Name	Data Type	Field Size	Description
LifeStageRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database
LifeStageCode	Text	5	See BenthicStageLookUp table for associated data.
LifeStageName	Text	255	For example: Adult; Subadult; Juvenile; Not Recorded.
LifeStageDescr	Text	255	This field is not populated at this time.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
LifeStageComments	Text	255	This field is no populated at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LocationDetailSS		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the type of area the sampling site is located. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See LocationDetailSS_Entry table for associated data and tables.			
Field Name	Data Type	Field Size	Description
LocationDetailSSRowID	AutoNumber	Long Integer	Primary Key. Unique Row Identifier; generated from within database. These details apply to all of the LocationRowIDs for this event type on this visit.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database
LocationCode	Text	255	A code given to each site location.
Accessibility	Text	50	Urban or rural
OccupationMethod	Text	50	This field shows how the site was accessed. By walk-in or RV name.
TimeQualSearch	Text	50	This refers to our qualitative search of rocky intertidal and subtidal habitats. If no search was conducted on this visit enter 0.
UnitTimeSearch	Text	50	This field shows what the unit of time is represented in. By hours or minutes It is usually represented in minutes to standardize.
SearchPatternCode	Text	50	Most of the search patterns are “random”, but sometimes include transect to shore. See Lookup table.
DepthRangeSearch	Text	50	The range of depths searched for a Subtidal rocky habitat qualitative search
UnitDepthRange	Text	50	Feet or meters

Table Name: LocationDetailISS		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the type of area the sampling site is located. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See LocationDetailISS_Entry table for associated data and tables.			
Field Name	Data Type	Field Size	Description
LocationDetailComments	Text	250	Notes that pertain to that event type at that location for that visit
s_GUID	AutoNumber	Replication ID	Unique Row Identifier; generated from within database
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LocationDetailISS_Entry		Current Number of Records: 828	As of : 08/11/09
Notes: MLML currently has control over this table. This table provides information on the type of area the sampling site is located. See Location_Entry for associated data.			
Field Name	Data Type	Field Size	Description
LocationDetailISSRowID	AutoNumber	Long Integer	Primary Key. Unique Row Identifier; generated from within database. These details apply to all of the LocationRowIDs for this event type on this visit.
LocationRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See Location_Entry table for associated data.
LocationCode	Text	255	A code given to each site location.
Accessibility	Text	50	Urban or rural
OccupationMethod	Text	50	This field shows how the site was accessed. By walk-in or RV name.
TimeQualSearch	Text	50	This refers to our qualitative search of rocky intertidal and subtidal habitats. If no search was conducted on this visit enter 0.
UnitTimeSearch	Text	50	This field shows what the unit of time is represented in. By hours or minutes It is usually represented in minutes to standardize.
SearchPatternCode	Text	50	Most of our search patterns are "random", but sometimes include transect to shore. See Lookup table
DepthRangeSearch	Text	50	The range of depths searched for a Subtidal rocky habitat qualitative search
UnitDepthRange	Text	50	Feet or meters

Table Name: LocationDetailISS_Entry		Current Number of Records: 828	As of : 08/11/09
Notes: MLML currently has control over this table. This table provides information on the type of area the sampling site is located. See Location Entry for associated data.			
Field Name	Data Type	Field Size	Description
LocationDetailComments	Text	250	Notes that pertain to that event type at that location for that visit
s_GUID	AutoNumber	Replication ID	Unique Row Identifier; generated from within database
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: LocationLookUp		Current Number of Records: 471	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the habitat of the sampling site. See Location_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
LocationRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database.
LocationCode	Text	255	A code given to each site location. See Location_Entry table for associated data.
LocationName	Text	255	Name of habitat type
LocationDescr	Text	255	Description of habitat type
Active	Yes/No	Yes/No	A unique four-digit number given to every sample taken at every station.
LocationType1	Text	50	Choose from a drop down menu of WQ, BA, TI, or ISS
LocationType2	Text	50	Choose from a drop down menu of WQ, BA, TI, or ISS
LocationType3	Text	50	Choose from a drop down menu of WQ, BA, TI, or ISS
LocationType4	Text	50	Choose from a drop down menu of WQ, BA, TI, or ISS
LocationComments	Text	255	Comments and additional information for location
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Location		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information on the type of area the sampling site is located. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See Location Entry table for associated data and tables.			
Field Name	Data Type	Field Size	Description
LocationRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication	Unique Row Identifier; generated from within database.
LocationCode	Text	255	Code of location. See LocationLookUp table for associated data
GeometryShape	Text	50	The geometrical (GPS) shape of the sampling location. For example: point; line; polygon centroid
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Location_Entry		Current Number of Records: 2,425	As of : 08/11/09
Notes: MLML currently has control over this table. This table provides information on the type of area the sampling site is located. See the following tables for associated data: BenthicCollection_Entry ; FieldCollection_Entry ; Geometry_Entry ; GroupGeometries_Entry ; LabCollection_Entry ; LocationDetailISS_Entry ; LocationLookUp ; and Sample_Entry .			
Field Name	Data Type	Field Size	Description
LocationRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database. See the following tables for associated data: BenthicCollection_Entry; FieldCollection_Entry; Geometry_Entry; GroupGeometries_Entry; LabCollection_Entry; and LocationDetailISS_Entry
SampleRowID	Number	Replication	Unique Row Identifier; generated from within database. See Sample_Entry table for associated data.
LocationCode	Text	255	Code of location. See LocationLookUp table for associated data.
GeometryShape	Text	50	The geometrical (GPS) shape of the sampling location. For example: point; line; polygon centroid
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: MatrixLookUp		Current Number of Records: 13	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of matrix water used when taking samples or in the lab. See ConstituentLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
MatrixRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database.
MatrixCode	Number	Integer	A code given to each site matrix. See ConstituentLookUp table for associated data.
MatrixName	Text	50	Name of matrix. For example: tissue, sediment, sample water, unknown, air, field, etc.
MatrixDescr	Text	100	Description of matrix
Active	Yes/No	Yes/No	A unique four-digit number given to every sample taken at every station.
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: MethodLookUp		Current Number of Records: 190	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of the different methods used for tests on the samples in a lab. See ConstituentLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
MethodRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database.
MethodCode	Number	Integer	A code given to each site method. See ConstituentLookUp table for associated data.
MethodName	Text	30	Name of method
MethodDescr	Text	150	Description of method
Type1	Text	15	Tox, Lab, or Field
Type2	Text	15	Tox, Lab, or Field
Type3	Text	15	Tox, Lab, or Field
Instrument	Text	75	The instrument used for sampling.
MethodOnFile	Text	50	The type of document format on file. For example: word doc or Standard Methods Manual (MPSL)
Active	Yes/No	Yes/No	A unique four-digit number given to every sample taken at every station.
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: MissingValueLookUp		Current Number of Records: 5	As of : 08/17/09
Notes: MLML's currently has control over this table. This table provides a list of possible missing values in data. There is no other tables associated with this table.			
Field Name	Data Type	Field Size	Description
MissingValueRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database.
MissingValueCode	Text	12	A code given to each missing value.
DataType	Text	30	Text, time, date, or numerical
MissingValueDescr	Text	255	Description of method. Currently listed at "not applicable" or "not recorded"
MissingValueComments	Text	255	Additional comments regarding missing values.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismIntroductionStatusDetail		Current Number of Records: 239	As of : 08/11/09
Notes: MLML currently has control over this table. This table provides detailed information on the status or change of status of specific organisms. See the following tables for associated data: OrganismIntroductionStatusLookUp ; and PersonnelLookUp .			
Field Name	Data Type	Field Size	Description
OrganismIntroductionStatusDetailRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database.
OrganismIntroductionStatusRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See OrganismIntroductionStatusLookUp for associated data.
OldIntroductionStatus	Text	255	Old Introduction status; Introduced/Cryptogenic/Native
OldStatusDeterminationSources	Text	255	Sources used to determine species introduction status
OldEnterDate	Date/Text	dd/mm/yyyy	Date Status assigned
OrganismIntroductionStatusDetailsComments	Memo		Comments regarding the species status details.
OldTaxonomistName	Text	255	Name of taxonomist that identified the species. See PersonnelLookUp table for associated data.
Gen_OrganismIntroductionStatusDetailsComments	Number	Long Integer	This field is not populated at this time. Comments pertaining to the status or status change of an organism.
Aen_OrganismIntroductionStatusDetailsComments	Number	Long Integer	Comments pertaining to the status or status change of an organism.
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: OrganismIntroductionStatusDetail		Current Number of Records: 239	As of : 08/11/09
Notes: MLML currently has control over this table. This table provides detailed information on the status or change of status of specific organisms. See the following tables for associated data: OrganismIntroductionStatusLookUp ; and PersonnelLookUp .			
Field Name	Data Type	Field Size	Description
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismIntroductionStatusLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a list of all the organisms' status that are in CANOD. See the following tables for associated data: OrganismIntroductionStatusDetail ; OrganismLookUp ; and PersonnellLookUp .			
Field Name	Data Type	Field Size	Description
OrganismIntroductionStatusRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database. See OrganismIntroductionStatusDetails table for associated data.
OrganismCode	Number	Replication ID	Unique Row Identifier; generated from within database. CALEDAS REPORTING REQUIREMENT - Non-intelligent, unique, sequentially assigned number identifying taxa. See OrganismLookUp table for associated data.
IntroductionStatus	Text	255	ISS added this field. Introduced/ Cryptogenic /Native/Unresolved/UnresolvedComplex
LikelyIntroducedorNative	Text	50	ISS added this field. If cryptogenic, taxonomists may speculate whether it is most likely to be introduced or native.
StatusDeterminationSources	Text	255	ISS added this field; sources used to determine whether this species is introduced, cryptogenic, or native

Table Name: OrganismIntroductionStatusLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a list of all the organisms' status that are in CANOD. See the following tables for associated data: OrganismIntroductionStatusDetail ; OrganismLookUp ; and PersonnelLookUp .			
Field Name	Data Type	Field Size	Description
TaxonomistName	Text	255	ISS added this field to identify taxonomist who submitted this taxonomic listing with data. There may be multiple taxonomists who submitted this taxonomy. This field will be used to generate species lists to give back to taxonomists. See PersonnelLookUp table for associated data.
DiscoveryYear	Number	Integer	Discovery Year
PopulationStatus	Text	50	The population status of a specific organism considered to be introduced within the borders of the state of California
PotentialImpact	Text	10	The potential impact of a non-native organism on an economical level and to other species and the environment.
EnterDate	Date/Time	dd/mm/yyyy	Date status was assigned.
Gen_OrganismIntroductionStatusComments	Number	Long Integer	This field is currently not populated. Comments pertaining to the status or status change of an organism.
Aen_OrganismIntroductionStatusDetailsComments	Number	Long Integer	Comments pertaining to the status or status change of an organism.
s_ColLineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismIntroductionStatusLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a list of all the organisms' status that are in CANOD. See the following tables for associated data: OrganismIntroductionStatusDetail ; OrganismLookUp ; and PersonnelLookUp .			
Field Name	Data Type	Field Size	Description
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object		Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismLiteratureLookUp		Current Number of Records:	As of : 04/26/2010
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data:			
Field Name	Data Type	Field Size	Description
Ref_ID	Number	Double	Reference number for indexing literature material
CitationCode	Text	225	Author Date citation code
Full Bibliographic Citation	Memo	n/a	Full bibliographic citation as it appears in Endnote
Author(s)	Text	225	All Authors
Year	Number	Double	The four digit year of publication or In Press if pending
Title	Text	225	The title of the reference, book, book section or paper name in a journal
Publication/Publisher	Text	225	The publisher of the book, or title of the journal or book in which article or book section appears.
Volume	Number	Double	The volume or edition of a book, newsletter or journal volume number for journal article
Issue	Number	Double	The issue number for the journal that contains this article
Pages	Text	225	Page numbers separated by hyphen; total page count for book.
PublicationType	Text	225	The type of reference material ie Journal, Book, Book Section, Report or Online
Hardcopy	Text	225	Is a hardcopy of material available? YES, NO, WEB only
HardcopyLocation	Text	225	Location of harcopy material if available
URL	Hyperlink	n/a	Url for web citation
Abstract	Memo	n/a	The abstract where it exists if available

Table Name: OrganismLiteratureLookUp		Current Number of Records:	As of : 04/26/2010
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data:			
Field Name	Data Type	Field Size	Description
TaxaType	Text	225	Search term for grouping like reference material eg mollusca, plant, fish etc.
ReferenceKeywords	Memo	n/a	Keywords that could be used to group this reference
GeographicRegion	Text	225	Broad Geographic region to group similar areas. (Link to region lookup?)
SpecificGeographicRegion	Text	225	General Geographic Location that reference addresses
Comments	Memo	n/a	Brief description of contents of reference or comments pertaining to specific reference

Table Name: OrganismLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data: BenthicResults_Entry ; GroupOrganismIdentification ; GroupOrganismPersonnel ; OrganismIntroductionStatusLookUp ; OrganismNativeRegionDetail ; OrganismStationPathwayJunction ; OrganismStationSourceRegionJunction ; OrganismSynonymLookUp ; and TaxonomicLevelLookUp			
Field Name	Data Type	Field Size	Description
OrganismIntroductionStatusRowID	AutoNumber	Replication	Primary Key. Unique Row Identifier; generated from within database.
OrganismCode	Number	Replication ID	Unique Row Identifier; generated from within database. CaLEDAS REPORTING REQUIREMENT - Non-intelligent, unique, sequentially assigned number identifying taxa. See the following tables for associated data: BenthicResults_Entry ; GroupOrganismIdentification ; GroupOrganismPersonnel ; OrganismIntroductionStatusLookUp ; OrganismNativeRegionDetail ; OrganismStationPathwayJunction ; OrganismStationSourceRegionJunction ; and OrganismSynonymLookUp
CommonName	Text	100	The common name or "nick name" for a species.
FinalID	Text	100	CaLEDAS REPORTING REQUIREMENT - Scientific name for the taxon

Table Name: OrganismLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data: BenthicResults Entry ; GroupOrganismIdentification ; GroupOrganismPersonnel ; OrganismIntroductionStatusLookUp ; OrganismNativeRegionDetail ; OrganismStationPathwayJunction ; OrganismStationSourceRegionJunction ; OrganismSynonymLookUp ; and TaxonomicLevelLookUp			
Field Name	Data Type	Field Size	Description
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries
Phylum	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Subphylum	Text	30	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Superclass	Text	30	The scientific name of the taxonomic hierarchy for specific species.
Class	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Subclass	Text	30	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Superorder	Text	30	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Order	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.

Table Name: OrganismLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data: BenthicResults Entry ; GroupOrganismIdentification ; GroupOrganismPersonnel ; OrganismIntroductionStatusLookUp ; OrganismNativeRegionDetail ; OrganismStationPathwayJunction ; OrganismStationSourceRegionJunction ; OrganismSynonymLookUp ; and TaxonomicLevelLookUp			
Field Name	Data Type	Field Size	Description
Suborder	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Superfamily	Text	50	The scientific name of the taxonomic hierarchy for specific species.
Family	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Subfamily	Text	30	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Tribe	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
GenusComplex	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Genus	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Subgenus	Text	50	The scientific name of the taxonomic hierarchy for specific species.

Table Name: OrganismLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data: BenthicResults Entry ; GroupOrganismIdentification ; GroupOrganismPersonnel ; OrganismIntroductionStatusLookUp ; OrganismNativeRegionDetail ; OrganismStationPathwayJunction ; OrganismStationSourceRegionJunction ; OrganismSynonymLookUp ; and TaxonomicLevelLookUp			
Field Name	Data Type	Field Size	Description
SpeciesComplex	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Species	Text	60	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Subspecies	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
Variety	Text	50	CaLEDAS REPORTING REQUIREMENT – The scientific name of the taxonomic hierarchy for specific species.
OrganismType1	Text	30	
TaxonomicLevelCode	Number	Long Integer	CaLEDAS REPORTING REQUIREMENT - A number indicating whether this is a phylum, class, etc - references corresponding values in the TaxLevel table. See TaxonomicLevelLookUp table for associated data.
TaxaList	Yes/No	Yes/No	Include this FinalID as a taxonomic endpoint in pull-down lists of FinalID's.
TaxonomicAuthority	Text	100	Name of author(s) who described this taxon

Table Name: OrganismLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data: BenthicResults_Entry ; GroupOrganismIdentification ; GroupOrganismPersonnel ; OrganismIntroductionStatusLookUp ; OrganismNativeRegionDetail ; OrganismStationPathwayJunction ; OrganismStationSourceRegionJunction ; OrganismSynonymLookUp ; and TaxonomicLevelLookUp			
Field Name	Data Type	Field Size	Description
TaxonomicAuthorityDate	Text	100	This field provides both taxonomic authority and the year the taxon was described.
CaliforniaTaxon	Yes/No	Yes/No	CaLEDAS REPORTING REQUIREMENT - Has a value of yes if this taxon is known to occur in California
Enter Date	Date/Time	Date/Time	System date when data was entered
DateNameRevised	Date/Time	Date/Time	System date when taxa name was revised
FinalAuthority	Text	50	Final Authority to update this species information
OrganismComments	Memo	Memo	Comments regarding this entry
Gen_OrganismComments	Number	Long Integer	This field is currently not populated. Long binary data. These are valid for replication but they are created by the database itself.
Aen_OrganismComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
Ben_OrganismComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.
Cen_OrganismComments	Number	Long Integer	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismLookUp		Current Number of Records: 4,186	As of : 08/11/09
Notes: MLML's currently has control over this table. This table provides a detailed list of all organisms in CANOD. See the following tables for associated data: BenthicResults_Entry ; GroupOrganismIdentification ; GroupOrganismPersonnel ; OrganismIntroductionStatusLookUp ; OrganismNativeRegionDetail ; OrganismStationPathwayJunction ; OrganismStationSourceRegionJunction ; OrganismSynonymLookUp ; and TaxonomicLevelLookUp			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	OLE Object	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	OLE Object	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismNativeRegionDetail		Current Number of Records: 525	As of : 08/17/09
Notes: OSPR currently has control over this table. This table provides the native region of all organisms in listed in CANOD. See OrganismLookUp table and RegionLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
OrganismNativeRegionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
OrganismCode	Number	Long Integer	Unique Row Identifier; generated from within database. CaLEDAS REPORTING REQUIREMENT - Non-intelligent, unique, sequentially assigned number identifying taxa. See OrganismLookUp table for associated data.
RegionCode	Number	Long Integer	Unique Row Identifier; generated from within database; associates a region with each organism code. See RegionLookUp table for associated data.
RegionDeterminationSources	Text	255	This field is currently not populated. The source used to determine the region code.
OrganismNativeRegionComments	Text	255	This field is not populated. Comments on the region codes.

Table Name: OrganismStationPathwayJunction		Current Number of Records: 3,123	As of : 08/06/09
Notes: OSPR currently has control over this table. This table provides information on the pathway (or vector) in which the each organism listed in CANOD was spread to non-native regions. See the following tables for associated data: OrganismLookUp ; PathwayLookUp and StationLookUp .			
Field Name	Data Type	Field Size	Description
OrganismStationPathwayJunctionRowID	Auto Number	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
OrganismCode	Number	Long Integer	Non-intelligent, unique, sequentially assigned number identifying taxa. See OrganismLookUp table for associated data.
StationCode	Text	9	Unique Row Identifier; generated from within database. See StationLookUp table for associated data.
PathwayCode	Number	Long Integer	Unique Row Identifier; generated from within database. See PathwayLookUp table for associated data.
Probability	Number	Integer	N/A
Date	Date/Time	dd/mm/yyyy	Date record was entered.
OrganismStationPathwayJunctionComments	Text	255	Comments regarding the way species are spread to non-native regions.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismStationSourceRegionJunction		Current Number of Records: 1,844	As of : 08/17/09
Notes: OSPR currently has control over this table. This table provides a list of organisms found per station. See the following tables for associated data: OrganismsLookUp ; RegionLookUp ; and StationLookUp .			
Field Name	Data Type	Field Size	Description
OrganismStationSourceRegionJunctionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
OrganismCode	Number	Long Integer	Unique Row Identifier; generated from within database. CALEDAS REPORTING REQUIREMENT - Non-intelligent, unique, sequentially assigned number identifying a taxon. See OrganismLookUp table for associated data..
StationCode	Text	9	Unique Row Identifier; generated from within database. See StationLookUp table for associated data.
RegionCode	Number	Long Integer	Unique Row Identifier; generated from within database; region associated with each station code. See RegionLookUp table for associated data.
RegionDeterminationSources	Text	255	This field is currently not populated.
Date	Date/Time	dd/mm/yyyy	Date record was entered.
OrganismStationSourceRegionJunctionComments	Text	255	This field is currently not populated.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: OrganismStationSourceRegionJunction		Current Number of Records: 1,844	As of : 08/17/09
Notes: OSPR currently has control over this table. This table provides a list of organisms found per station. See the following tables for associated data: OrganismsLookUp ; RegionLookUp ; and StationLookUp .			
Field Name	Data Type	Field Size	Description
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: OrganismSynonymLookUp		Current Number of Records: 2,012	As of : 08/11/09
Notes: MLMLs currently has control over this table. This table provides a list of synonyms for organisms that have had a change of name. See OrganismLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
OrganismSynonymRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
OrganismCode	Number	Long Integer	Unique Row Identifier; generated from within database. CalEDAS REPORTING REQUIREMENT -Non-intelligent, unique, sequentially assigned number identifying taxa. See OrganismLookUp table for associated data.
SynonymName	Text	9	Name of synonym.
OrganismSynonymComments	Text	Long Integer	Comments on organisms' synonym.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PathwayLookUp		Current Number of Records: 26	As of : 08/17/09
Notes: OSPR currently has control over this table. This table provides a list of possible pathways or vectors for organism. See OrganismStationPathwayJunction table for associated data.			
Field Name	Data Type	Field Size	Description
PathwayRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PathwayCode	Number	Long Integer	Unique Row Identifier; generated from within database. Pathway code is correlated to the Pathway name. See the OrganismStationPathwayJunction table for associated data.
PathwayName	Text	100	Pathway of Introduction
PathwayDescription	Text	255	This field is currently not populated.
PathCategory	Text	50	There are 10 pathway categories. Aquaculture, Biocontrol, Fisheries, Natural Dispersals, Ornamental, Other, Oyster, Recreational Boats, Shipping, and Unknown.
PathwayComments	Text	255	Comments regarding pathway edits.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Personnel		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all personnel that were involved in a collection of samples at each site. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See Personnel Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
PersonnelRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier; generated from within database. Pathway code is correlated to the Pathway name. See Sample_Entry table.
PersonnelCode	Text	50	Personnel code is correlated to the Personnel name of each taxonomist. The last name is first and the first name is initials second. See PersonnelLookUp table for associated data.
PersonnelDutiesRowID	AutoNumber	Long Integer	Unique Row Identifier; generated from within database. In the future this will be used to associate it with a specific duty, such as “sampling”.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Personnel_Entry		Current Number of Records: 2,289	As of : 08/12/09
Notes: MLML currently has control over this table. This table provides a list of all personnel that were involved in the collection of samples at each site. See the following tables for associated data: PersonnelDuty_Entry ; PersonnelLookup ; and Sample_Entry .			
Field Name	Data Type	Field Size	Description
PersonnelRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier; generated from within database. See Sample_Entry table for associated data.
PersonnelCode	Text	50	Personnel code is correlated to the Personnel name of each taxonomist. The last name is first and the first name is initials second. See PersonnelLookUp table for associated data.
PersonnelDutiesRowID	AutoNumber	Long Integer	Unique Row Identifier; generated from within database. In the future this will be used to associate it with a specific duty, such as "sampling". See PersonnelDuty_Entry table for associated data.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PersonnelLookUp		Current Number of Records: 99	As of : 08/11/09
Notes: MLML currently has control over this table. This table provides a detail list of all contact information of personnel associated with CANOD. See the following tables for associated data: AgencyLookUp ; BenthicResult_Entry ; GroupOrganismPersonnel ; OrganismIntroductionStatusDetail ; OrgrandimsIntroductionStatusLookUp ; and Personnel_Entry .			
Field Name	Data Type	Field Size	Description
PersonnelLURowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PersonnelCode	Text	50	Code assigned for personnel The last name is first and the first name is initialed second);. See the following tables for associated data: BenthicResult_Entry; GroupOrganismPersonnel ; OrganismIntroductionStatusDetail; OrgrandimsIntroductionStatusLookUp; and Personnel_Entry.
FirstName	Text	255	First name of personnel
LastName	Text	255	Last name of personnel
AgencyCode	Text	20	Code assigned for personnel's agency. See AgencyLookUp table for associated data.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
Email	Text	50	Email for personnel
Telephone	Text	25	Telephone for personnel
Address	Text	225	The address where personnel works. There are instances where taxonomists address is different from the agency they are associated with.
City	Text	225	Full name of the nearest town, city or community of the Personnel.

Table Name: PersonnelLookUp		Current Number of Records: 99	As of : 08/11/09
Notes: MLML currently has control over this table. This table provides a detail list of all contact information of personnel associated with CANOD. See the following tables for associated data: AgencyLookUp ; BenthicResult Entry ; GroupOrganismPersonnel ; OrganismIntroductionStatusDetail ; OrgrandimsIntroductionStatusLookUp ; and Personnel Entry .			
Field Name	Data Type	Field Size	Description
State	Text	2	The state where personnel works.
Zip	Text	10	The zip code where personnel works.
County	Text	50	The county where personnel works.
LabTaxonomist	Yes/No	Yes/No	Yes/No
PersonnelComments	Text	255	Additional comments of Personnel details.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PersonnelDuties		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table designates specific duties to each personnel listed in the Personnel Entry table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See PersonnelDuties Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
PersonnelDutiesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PersonnelDutyRowID	Number	Long Integer	Unique Row Identifier; generated from within database.
PersonnelDutyCode	Text	50	Code for a duty associated with personnel. For example “taxonomy” or “sampling. See PersonnelDutyLookUp table.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PersonnelDuties_Entry		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table designates specific duties to each personnel listed in the Personnel Entry table. This table is not populated at this time. MLMLs plans to populate this table in the future. This is not associated to any other data at this time.			
Field Name	Data Type	Field Size	Description
PersonnelDutiesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PersonnelDutyRowID	Number	Long Integer	Unique Row Identifier; generated from within database.
PersonnelDutyCode	Text	50	Code for a duty associated with personnel. For example "taxonomy" or "sampling. See PersonnelDutyLookUp table.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PersonnelDuty		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table designates specific duties to each personnel listed in the Personnel Entry table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. See PersonnelDuty Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
PersonnelDutyRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PersonnelDutiesRowID	Number	Long Integer	Unique Row Identifier; generated from within database.
PersonnelDutyCode	Text	50	Code for a duty associated with personnel. For example “taxonomy” or “sampling. See PersonnelDutyLookUp table.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PersonnelDuty_Entry		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table designates specific duties to each personnel listed in the Personnel_Entry table. This table is not populated at this time. MLMLs plans to populate this table in the future. See PersonnelDutyLookup table and Personnel_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
PersonnelDutyLURowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PersonnelDutiesRowID	Number	Long Integer	Unique Row Identifier. See Personnel_Entry table for associated data.
PersonnelDutyCode	Text	50	Code for a duty associated with personnel. For example "taxonomy" or "sampling. See PersonnelDutyLookUp table for associated data.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PersonnelDutyLookUp		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible duties associated with CANOD. This table is not populated at this time. MLMLs plans to populate this table in the future. See the following tables for associated data: PersonnelDuty ; and PersonnelDuty Entry .			
Field Name	Data Type	Field Size	Description
PersonnelDutyLURowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PersonnelDutyCode	Text	50	Code for a duty associated with personnel. For example "taxonomy" or "sampling. See PersonnelDutyLookUp table.
PersonnelDutyName	Text	50	Name of duty assigned to personnel.
PersonnelDutyDescr	Text	255	Description the duty assigned to personnel.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
PersonnelDutyComments	Text	255	Additional comments associated with specific duties assigned to personnel.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PrepPreservationLookUp		Current Number of Records: 17	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides a list of possible ways to prep for species preservation for vouchers. See LabResult_Entry for associated data in CANOD.			
Field Name	Data Type	Field Size	Description
PrepPreservationRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PrepPreservationCode	Text	50	Code assigned for PrepPerservation. See LabResult_Entry for associated data.
PrepPreservationName	Text	255	The name of the PrepPreservation. For example: Centrifuged. LanAcidified.
PrepPreservationDescr	Text	255	A description of the PrepPreservation. Typically, the description is the same as the name.
Filtered	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: ProjectLookUp		Current Number of Records: 25	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides a list of project associated with introduced, cryptogenic and native species found through both literature and surveys. See Sample_Entry table, FundingLookup and GroupProjectLookup table for associated data.			
Field Name	Data Type	Field Size	Description
ProjectRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
ProjectCode	Text	25	The code assigned to a project, may contain multiple Project IDs. See Sample_Entry table, FundingLookup and GroupProjectLookup table for associated data.
ProjectName	Text	255	Name of project or literature citation.
ProjectDescr	Text	255	Description of the project
ProjectType	Text	50	The two choices are "Literature Review" and "Species Detection"
StartDate	Date/Time	Short Date	The date the project started.
Duration	Text	150	The length of time of the project
Purpose	Text	255	This field is not populated at this time.
ProjectManager	Text	100	The manager of the project.
ProjectLead	Text	100	The lead manager of the project.
ProjectPhone	Text	20	The phone number of the project manager or lead.
ProjectEmail	Text	150	The email address of the project manager or lead.
Address1	Text	255	This field is not populated at this time.
Address2	Text	255	This field is not populated at this time.
City	Text	255	This field is not populated at this time.
State	Text	2	This field is not populated at this time.

Table Name: ProjectLookUp		Current Number of Records: 25	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides a list of project associated with introduced, cryptogenic and native species found through both literature and surveys. See Sample Entry table, FundingLookup and GroupProjectLookup table for associated data.			
Field Name	Data Type	Field Size	Description
Zip	Text	10	This field is not populated at this time.
URL	Text	255	This field is not populated at this time.
Organization	Text	255	This field is not populated at this time.
DQOlevel	Text	255	This field is not populated at this time.
ExternalFileName	Text	255	This field is not populated at this time.
ParentProjectComments	Text	250	This field is not populated at this time.
Public	Yes/No	Yes/No	This field is not populated at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: ProtocolLookUp		Current Number of Records: 8	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides a list of protocols used when conducting surveys associated to specific surveys and agencies. See Sample_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
ProtocolRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
ProtocolCode	Text	20	Code assigned to each protocol. See Sample_Entry table for associated data.
ProtocolName	Text	255	Name of Protocol
ProtocolDescr	Text	255	Description of protocol
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
ProtocolType1	Text	20	Choose from "TI", "WQ", "BA", and "TS"
ProtocolType2	Text	25	Choose from "TI", "WQ", "BA", and "TS"
ProtocolType3	Text	25	Choose from "TI", "WQ", "BA", and "TS"
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PublicationsLookUp		Current Number of Records: 0	As of : 08/13/09
Notes: MLML currently has control over this table. This table is currently not populated at this time. This table is associated with the “permanent” side of the database. MLMLs plans to populate this table in the future. This table has not other tables associated with it.			
Field Name	Data Type	Field Size	Description
PublicationRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PublicationCode	Text	50	Code assigned to Publication
PublicationName	Text	100	Publications title
PublicationDescription	Text	200	Summary of Publication
PublicationComments	Text	255	Additional comments on publication.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: PurposeFailureLookUp		Current Number of Records: 16	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides of list of possible scenarios where a sample can not be completed. For example: Instrument Failure. See SampleHistory_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
PurposeFailureRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
PurposeFailureCode	Number	Long Integer	Code assigned to purpose failure. See SampleHistory_Entry table for associated data.
PurposeFailureName	Text	255	Description of PurposeFailure
PurposeFailureDescr	Text	255	Additional description of PurposeFailure
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
PurposeFailureType1	Text	50	This field is not populated at this time.
PurposeFailureType2	Text	50	This field is not populated at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: QALookUp		Current Number of Records: 405	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides a list of possible QA violations. See LabResult_Entry , FieldResult_Entry , and BenthicResult_Entry tables for associated data.			
Field Name	Data Type	Field Size	Description
QARowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
QACode	Text	30	Code assigned to QA violation. See LabResult_Entry , FieldResult_Entry , and BenthicResult_Entry tables for associated data.
QAName	Text	255	Description of QA
QADescr	Text	255	Additional description of QA. Often the same as the description.
QAType1	Text	25	Choose between: lab, tox, field, TI, Vert, Hab, BA
QAType2	Text	25	Choose between: lab, tox, field, TI, Vert, Hab, BA
QAType3	Text	25	Choose between: lab, tox, field, TI, Vert, Hab, BA
QAType4	Text	25	Choose between: lab, tox, field, TI, Vert, Hab, BA
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: QAPPLookUp		Current Number of Records: 1	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of QAPP literature. See FundingLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
QAPPRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
QAPPCode	Number	Integer	Code assigned to QAPP. See FundingLookUp table for associated data.
QAPPName	Text	100	Name of QAPP document
QAPPDescr	Text	255	Description of QAPP
QAPPComments	Text	255	Additional comments on QAPP. This field is not populated at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: QuadratProfileLookUp		Current Number of Records: 7	As of : 08/13/09
Notes: MLML currently has control over this table. This table identifies the number of different orientations that the quadrat (PVC square that is 0.05m ² in area) can be in when taking a clearing sample. There are no other tables associated with this table.			
Field Name	Data Type	Field Size	Description
QuadratProfileRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
QuadratProfileCode	Number	Integer	A number assigned to each quadrat orientation.
ProfileName	Text	100	Names of different orientations. For example: Underside – placed on the underside of a dock; Horizontal – horizontal that isn't underneath anything; Vertical – on the side of a rock; etc.
ProfileComments	Text	255	Additional comments about quadrant orientation. This field is not populated at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: RegionLookUp		Current Number of Records: 41	As of : 08/13/09
Notes: OSPR currently has control over this table. This table provides a list of possible native or non-native regions an organism resides. See OrganismStationSourceRegionJunction table or OrgnaismNativeRegionDetail table for associated data.			
Field Name	Data Type	Field Size	Description
RegionRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
RegionCode	Number	Long Integer	A number assigned to each region. See OrganismStationSourceRegionJunction table or OrgnaismNativeRegionDetail table for associated data.
RegionName	Text	50	Name of country or region
RegionDescription	Text	255	Additional description of Region.
RegionCategory	Text	50	The category is the nearest ocean to the region.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: ResQualLookUp		Current Number of Records: 13	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides a list of symbols and abbreviations used in a lab report. See LabResult_Entry table and FieldResult_Entry tables for associated data.			
Field Name	Data Type	Field Size	Description
ResQualRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
ResQualCode	Text		Letters and symbols used in a lab report. See LabResult_Entry table and FieldResult_Entry tables for associated data.
ResQualName	Text		The name/description of the letters and symbols.
ResQualDescr	Text		Additional description of letters and symbols.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
ResQualType1	Text		Choose between: Lab, Field, Tox, TI, or ByCatch.
ResQualType2	Text		Choose between: Lab, Field, Tox, TI, or ByCatch.
ResQualType3	Text		Choose between: Lab, Field, Tox, TI, or ByCatch.
ResQualType4	Text		Choose between: Lab, Field, Tox, TI, or ByCatch.
ResQualType5	Text		Choose between: Lab, Field, Tox, TI, or ByCatch.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Sample		Current Number of Records: 0	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides details on samples collected. This table is not populated at this time. This table is associated with the “permanent” side of the database. See Sample Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
SampleRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
EventCode	Text	20	WQ: Water Quality; TI: Tissue Analysis; ISS: Introduced Species Studies; BA: Bioassessment. See EventCodeLookUp
ProtocolCode	Text	20	Established Protocol (set of methods/methodology and specs) used. See ProtocolLookUp table.
StationCode	Text	9	SWAMP designated station label Xxx#####; X=Regional Board, xx=Hydrologic Unit, #####=alpha-numeric code. See StationLookUp table.
SampleDate	Date/Name	dd/mm/yyyy	Date of station visit expressed as dd/mm/yyyy
AgencyCode	Text	20	Agency collecting the sample. See AgencyLookUp table.
ProjectCode	Text	25	Used to relate data to Task Orders; YYSWX### YY=Fiscal Year, SW=SWAMP, X=Regional Board, ###=Task Order. See Project Code table.
SampleComplete	Yes/No	Yes/No	Selected after sample is checked for completeness
UserName	Text	20	Lists personnel name. Field used for data management

Table Name: Sample		Current Number of Records: 0	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides details on samples collected. This table is not populated at this time. This table is associated with the “permanent” side of the database. See Sample Entry table for associated tables and data.			
Field Name	Data Type	Field Size	Description
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: Sample_Entry		Current Number of Records: 2,175	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides details on samples collected. For associated data see the following tables: AgencyLookUp ; EventCodeLookUp ; GroupSample_Entry ; Personnel_Entry ; ProjectLookUp ; ProtocolLookUp ; Location_Entry ; SampleHistory_Entry ; SampleDetail_Entry ; SampleFunding_Entry ; and StationLookUp .			
Field Name	Data Type	Field Size	Description
SampleRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database. See the following tables for associated data: GroupSamples_Entry; Location_Entry; Personnel_Entry; SampleDetail_Entry; SampleHistory_Entry; and SampleFunding_Entry
EventCode	Text	20	WQ: Water Quality; TI: Tissue Analysis; ISS: Introduced Species Studies; BA: Bioassessment. See EventCodeLookUp for associated data.
ProtocolCode	Text	255	Established Protocol (set of methods/methodology and specs) used. See ProtocolLookUp table for associated data.
StationCode	Text	255	SWAMP designated station label Xxx#####; X=Regional Board, xx=Hydrologic Unit, #####=alpha-numeric code. See StationLookUp table for associated data.
SampleDate	Date/Time	dd/mm/yyyy	Date of station visit expressed as dd/mm/yyyy
AgencyCode	Text	20	Agency collecting the sample. See AgencyLookUp table for associated data.

Table Name: Sample_Entry		Current Number of Records: 2,175	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides details on samples collected. For associated data see the following tables: AgencyLookUp ; EventCodeLookUp ; GroupSample Entry ; Personnel Entry ; ProjectLookUp ; ProtocolLookUp ; Location Entry ; SampleHistory Entry ; SampleDetail Entry ; SampleFunding Entry ; and StationLookUp .			
Field Name	Data Type	Field Size	Description
ProjectCode	Text	20	Used to relate data to Task Orders; YYSWX### YY=Fiscal Year, SW=SWAMP, X=Regional Board, ###=Task Order. See ProjectLookup table for associated data.
SampleComplete	Yes/No	Yes/No	Selected after sample is checked for completeness
UserName	Text	20	Lists personnel name. Field used for data management
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleDestinationTypeLookUp		Current Number of Records: 9	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides a list of possibilities of what happens to the samples after lab work is complete. There are no other tables associated with this data.			
Field Name	Data Type	Field Size	Description
SampleDestinationTypeRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleDestinationTypeCode	Text	10	The code given to each Sample Destination Type.
SampleDestinationType	Text	50	This field describes the final destination of the samples; i.e. archived, vouchered, discarded, used for genetics, lost, etc.
SampleDestinationTypeDesc	Text	200	Describes each type of sample destination.
SampleDestinationTypeComments	Text	255	Additional comments on the sample's final destination
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleDetail		Current Number of Records: 0	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides details of samples collected. Data is from the field datasheet. This table is not populated at this time. This table is associated with the “permanent” side of the database. See SampleDetail_Entry for associated tables and data.			
Field Name	Data Type	Field Size	Description
SampleDetailRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier. Links record to the Sample Table
Leg	Number	Double	Each field week is assigned a unique Leg number.
ArrivalTime	Date/Time	Short Time	This data is taken from the field datasheet. This is the time that is recorded when we arrive at a site
DepartureTime	Date/Time	Short Time	This data is taken from the field datasheet. This is the time that is recorded when we arrive at a site
LowTideTime	Date/Time	Short Time	Only applicable for intertidal sites; if a dive or grab site, we likely didn't record tide information
LowTideLevel	Number	Double	Only applicable for intertidal sites; if a dive or grab site, we likely didn't record tide information
UnitsLowTideLevel	Text	50	In feet or meters
Comments	Text	255	Comments about the Sample
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.

Table Name: SampleDetail		Current Number of Records: 0	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides details of samples collected. Data is from the field datasheet. This table is not populated at this time. This table is associated with the “permanent” side of the database. See SampleDetail Entry for associated tables and data.			
Field Name	Data Type	Field Size	Description
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleDetail_Entry		Current Number of Records: 718	As of : 08/13/09
Notes: MLML currently has control over this table. This table provides details of samples collected. See Sample_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
SampleDetailRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier. See Sample_Entry table for associated data.
Leg	Number	Double	Each field week is assigned a unique Leg number.
ArrivalTime	Date/Time	Short Time	This data is taken from the field datasheet. This is the time that is recorded when we arrive at a site
DepartureTime	Date/Time	Short Time	This data is taken from the field datasheet. This is the time that is recorded when we arrive at a site
LowTideTime	Date/Time	Short Time	Only applicable for intertidal sites; if a dive or grab site, we likely didn't record tide information
LowTideLevel	Number	Double	Only applicable for intertidal sites; if a dive or grab site, we likely didn't record tide information
UnitsLowTideLevel	Text	50	In feet or meters
Comments	Text	255	Comments about the Sample
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleFunding		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table lists which funding is associated with which sampling event. This table is not populated at this time and is associated with the “permanent” side of the database. Se SampleFunding Entry for associated tables and data.			
Field Name	Data Type	Field Size	Description
SampleFundingRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier. Foreign key to table Sample.
FundingCode	Text	8	See FundingLookup table for details.
SampleFundingComments	Text	255	Comments on Sample Funding.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleFunding_Entry		Current Number of Records: 2,068	As of : 08/13/09
Notes: MLML currently has control over this table. This table lists which funding is associated with which sampling event. See FundingLookUp table and Sample_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
SampleFundingRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier. See Sample_Entry table for associated data.
FundingCode	Text	8	See FundingLookup table for associated data.
SampleFundingComments	Text	255	Comments on funding.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleHistory		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the history of what type of sample was taken and why personnel were unable to obtain the sample. This table is not populated at this time and is associated with the “permanent” side of the database. See SampleHistory Entry for associated tables and data.			
Field Name	Data Type	Field Size	Description
SampleHistoryRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier. Foreign key to table Sample.
SamplePurposeCode	Text	20	See SamplePurposeLookup table for further information. Can choose from “Clearing”, “Grab”, “GrainSize”, “Holdfast”, “Plankton”, “Qualitative”, or “Scoop”.
PurposeFailureCode	Number	Long Integer	See PurposeFailLookup table for further information.
SampleHistoryComments	Text	255	Additional information on sample history, include reason why samples were not able to be taken.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleHistory_Entry		Current Number of Records: 1,214	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides information regarding the history of what type of sample was taken and why personnel were unable to obtain the sample. See PurposeFailureLookup table; Sample_Entry table; SamplePurposeLookup table for associated data.			
Field Name	Data Type	Field Size	Description
SampleHistoryRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleRowID	Number	Replication ID	Unique Row Identifier. See Sample_Entry for associated data.
SamplePurposeCode	Text	20	See SamplePurposeLookup table for associated data. Can choose from "Clearing", "Grab", "GrainSize", "Holdfast", "Plankton", "Qualitative", or "Scoop".
PurposeFailureCode	Number	Long Integer	See PurposeFailLookup table for associated data.
SampleHistoryComments	Text	255	Additional information on sample history, include reason why samples were not able to be taken.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SamplePurposeLookup		Current Number of Records: 16	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of type of samples that might be taking in the field. For example: Bioassessment, plankton, clearing, grab, scoop, and qualitative. See SampleHistory_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
SamplePurposeRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SamplePurposeCode	Text	20	Code given to different types of sampling. See SampleHistory_Entry for associated data.
SamplePurposeName	Text	255	Full name of Sample Purpose.
*/SamplePurposeDescr	Text	255	Provides a description of the sample purpose.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
SamplePurposeComments	Text	255	Comments on the Sample Purpose. This field is currently not populated.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SampleTypeLookUp		Current Number of Records: 33	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all possible sample types. For example: field blanks, grab, lab blanks, sightings, clearings etc. See BenthicCollection_Entry table; and LabCollection_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
SampleTypeRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SampleTypeCode	Text	20	A code provided to Sample Type. See BenthicCollection_Entry table; and LabCollection_Entry table for associated data.
SampleTypeName	Text	255	Full name of Sample Type.
SampleTypeDescr	Text	255	Provides a description of the Sample Type.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
EventType1	Text	20	Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab, Tox, Field, etc). The above would be true for all type fields.
EventType2	Text	20	Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab
EventType3	Text	20	Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab

Table Name: SampleTypeLookUp		Current Number of Records: 33	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all possible sample types. For example: field blanks, grab, lab blanks, sightings, clearings etc. See BenthicCollection_Entry table; and LabCollection_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
SampleTypeType	Text	20	Used in queries and forms to limit output to a subset of results or "Result type used to limit output in queries and forms (i.e. Lab
SampleTypeComments	Text	255	Comments on the Sample Type. This field is currently not populated.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: SplitMethodLookUp		Current Number of Records: 25	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible benthic lab methods. See BenthicResultsDetail_Entry for associated data.			
Field Name	Data Type	Field Size	Description
SplitMethodRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
SplitMethodCode	Number	Integer	A code provided to the Split Method. See BenthicResultsDetail_Entry for associated data.
QuantitativeOrScan	Text	50	Describes benthic lab method; if it goes through the benthic lab it will be either quantitative or scan(qualitative); if it is a field qualitative it will be 'FieldQualitative'
DensitySeparation	Text	50	Describes benthic lab method; supernatant, granular or whole; 'none' if it is a field qualitative sample
PrimarySubsample	Number	Single	Describes sub-sampling of original IDORG that occurs in the benthic lab; gives percent of original sample that was sorted; if it says 100 then no sub-sampling occurred.
SecondarySubsample	Number	Single	Describes sub-sampling of original IDORG that occurs in the benthic lab; gives percent of primary sample that was sorted; if it says 100 then no sub-sampling occurred.

Table Name: SplitMethodLookUp		Current Number of Records: 25	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of possible benthic lab methods. See BenthicResultsDetail Entry for associated data.			
Field Name	Data Type	Field Size	Description
ThirdSubsample	Number	Single	Describes sub-sampling of original IDORG that occurs in the benthic lab; gives percent of secondary sample that was sorted; if it says 100 then no sub-sampling occurred.
FinalSubsample	Number	Single	The calculated total proportion of the original IDORG that was sorted for this subIDORG/vial; 100 for field qualitative samples
SplitMethodComments	Text	250	Additional comments concerning benthic lab methods. This field is not populated at this time.

Table Name: StationAliasLookUp		Current Number of Records: 289	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of alias's for sampling stations. See StationLookup table for associated data.			
Field Name	Data Type	Field Size	Description
StationAliasRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
StationCode	Text	9	Code provided for station alias. See StationLookUp for associated data.
StationAlias	Text	100	Alternate name or code for this station
AliasSource	Text	255	Source of the alias (e.g., submitting lab, whatever). REQUIRED FIELD - if a station has more than one alias, the aliases are meaningless with reference data.
AliasDate	Date/Time	Short Date	When the alias was assigned. Defaults to the system date; not required
AliasAuthor	Text	50	This field lists the personnel responsible for assigning the alias.
StationAliasComments	Memo		Additional comments regarding alias.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: StationLookUp		Current Number of Records: 1,043	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all sampling stations and detailed information regarding the stations. See the following tables for associated data: Geometry_Entry ; GroupStationLookup ; OrgnaismStationPathwayJunction ; OrganismStationSourceRegionJunction ; Sample_Entry and StationAliasLookup .			
Field Name	Data Type	Field Size	Description
StationRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
StationSource	Text	50	Regional Board Number
StationCode	Text	9	SWAMP designated station label Xxx##### X=Regional Board, xx= Hydrologic Unit, #####= alpha-numeric code. See the following tables for associated data: Geometry_Entry ; Sample_Entry ; GroupStationLookup ; OrgnaismStationPathwayJunction . OrganismStationSourceRegionJunction ; Sample_Entry and StationAliasLookup .
StationName	Text	255	Regional Board defined name for station.
StationDescr	Text	255	This field provides alternative names and codes for the Stations.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
EventType1	Text	20	Choose from "WQ", "TI", "ISS", "BA". This field is currently not populated.
EventType2	Text	20	This field is currently not populated.
EventType3	Text	20	This field is currently not populated.
BaysWatershed	Text	50	A stations sublocation.

Table Name: StationLookUp		Current Number of Records: 1,043	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all sampling stations and detailed information regarding the stations. See the following tables for associated data: Geometry Entry ; GroupStationLookup ; OrgnaismStationPathwayJunction ; OrganismStationSourceRegionJunction ; Sample Entry and StationAliasLookup .			
Field Name	Data Type	Field Size	Description
StationComments	Text	255	Comment regarding station
GageStationID	Text	50	Identifier for USGS Gage station located at SWAMP Station location.
HydrologicUnit	Text	50	Name of Hydrologic Unit based on CALWater 2.2; 3 digit number incorporated into the Station Code
HydroSubarea	Number	Double	6-digit HydroUnit & Sub-area Number based on CALWATER 2.2
CalWNum221	Text	12	10-digit California Planning Watershed Number based on CALWATER 2.2
SWRCBNum221	Number	Double	A CalWater watershed identifier provided by the State Water Resource Control Board.
HBASA2	Number	Double	The coverage hbas2 was prepared by the California department of Fish and Game (DFG) as a task within an interagency agreement for geographic information system (GIS) support to the California State Water Resources Control Board (SWRCB) Non-Point Source (NPS) Unit. Hbas2 is a statewide version of the Teale GIS Technology Center (Teale) County Library data layer for hydrologic basins, called hbas.

Table Name: StationLookUp		Current Number of Records: 1,043	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all sampling stations and detailed information regarding the stations. See the following tables for associated data: Geometry Entry ; GroupStationLookup ; OrgnaismStationPathwayJunction ; OrganismStationSourceRegionJunction ; Sample Entry and StationAliasLookup .			
Field Name	Data Type	Field Size	Description
SWRCBWatTypeCode	Text	5	GEOWBS Water Body Type From WBTypeLookUp - data dictionary
NationalHydrographyDataReach	Number	Double	14-digit number based on National Hydrography Data Reach (NHD)
SubBay/SubHarbor	Text	50	A station's sublocation
ISSWaterbody	Text	50	Name of waterbody
Bioregion	Text	50	This field splits California up into 3 regions. Northern California, Central California and Southern California.
OuterCoast	Yes/No	Yes/No	This field is checked if the station is from MISP Outer Coast survey.
County	Text	50	The full name of the nearest town, city, or community.
State	Text	50	The state what station was in. This will always be California.
AddDate	Date/Time	Date/Time	Date the station was added to the table
ProcessedDMT	Yes/No	Yes/No	This Station information was processed by Regional Board Staff and Data Management Team
StationVerBy	Text	100	This is how the station was verified by.

Table Name: StationLookUp		Current Number of Records: 1,043	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all sampling stations and detailed information regarding the stations. See the following tables for associated data: Geometry Entry ; GroupStationLookup ; OrgnaismStationPathwayJunction ; OrganismStationSourceRegionJunction ; Sample Entry and StationAliasLookup .			
Field Name	Data Type	Field Size	Description
StationVerDate	Date/Time	Date/Time	The date the station was verified by.
StationVerComments	Text	255	Comments provided by the person who verified the station.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: TaxCDLookUp		Current Number of Records: 24	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of justifications for why a taxonomist did not identify a specimen to standard efforts. See BenthicResult_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
TaxCDLookUp	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
TaxCDCCode	Text	50	An alpha character representing the taxonomist's justification for not identifying a specimen to standard effort or identifying a specimen down to the species level. See BenthicResult_Entry table for associated data.
TaxCDName	Text	255	The full name of the TaxCD, correlated with TaxCD Code.
TaxCDDescr	Text	255	Provides a description of the TaxCD.
TaxCDComments	Text	255	Additional comments or clarification as to why a taxonomist did not identify a specimen to standard effort. This field is currently not populated.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: TaxonomicCategoryLookUp		Current Number of Records: 0	As of : 08/17/09
Notes: MLML currently has control over this table. This table is not populated at this time. When this table is populated, it will provide a list of all taxonomic categories. There are no other tables in CANOD associated with this data.			
Field Name	Data Type	Field Size	Description
TaxonomicCategoryRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
TaxonomicCategoryCode	Text	50	A unique identifier (and sorting field) for the taxonomic category.
TaxonomicCategoryName	Text	255	Name of the taxonomic categories.
TaxonomicCategoryClass	Text	50	Category class.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
TaxonomicCategoryComments	Text	255	Comments regarding Taxonomic Level. This field is currently not populated.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: TaxonomicLevelLookUp		Current Number of Records: 20	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all taxonomic levels. See OrganismLookup table for associated data.			
Field Name	Data Type	Field Size	Description
TaxonomicLevelRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
TaxonomicLevelCode	Text	50	A unique identifier (and sorting field) for the level of the taxonomic ID. See OrganismLookUp table for associated data.
TaxonomicLevelName	Text	255	Name of the taxonomic level (eg, Phylum, Class, etc); DO NOT EDIT FIELD CONTENTS; Values may not include spaces; Values must match corresponding field name in OrganismLookup table.
TaxonomicLevelDescr	Text	255	A description for the TaxLevel - in case it's something other than the TaxLevel (TaxLevel may not include spaces; description may; required for genus and species complex names for proper display. Otherwise defaults to the TaxonomicLevelName)
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
TaxonomicLevelComments	Text	255	Comments regarding Taxonomic Level. This field is currently not populated.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: TaxonomicLevelLookUp		Current Number of Records: 20	As of : 08/17/09
Notes: MLML currently has control over this table. This table provides a list of all taxonomic levels. See OrganismLookup table for associated data.			
Field Name	Data Type	Field Size	Description
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: UnitLookUp		Current Number of Records: 43	As of : 08/17/09
Notes: MLML currently has control over this table. This table is part of the data dictionary and provides a list of all possible units that will be seen in CANOD. For example: psu; kts; ft; cfs etc. See ConstituentLookUp table and BenthicCollectionDetail_Entry table for associated data.			
Field Name	Data Type	Field Size	Description
UnitRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
UnitCode	Number	Integer	A unique identifier (and sorting field) for the unit. See ConstituentLookUp table and BenthicCollectionDetail_Entry table for associated data.
Unit	Text	20	Measurement Units
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: UnitsLookUp		Current Number of Records: 86	As of : 08/17/09
Notes: MLML currently has control over this table. This table is part of data dictionary object and provides a description of many fields in tables of CANOD. See VariablesLookUp table and VariableCodesLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
UnitsRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
VariableName	Text	40	The name of the variable unit. See VariablesLookUp table for associated data.
FromDate	Date/Time	dd/mm/yyyy	This field is currently not populated.
ToDate	Date/Time	dd/mm/yyyy	This field is currently not populated.
Units	Text	50	Additional information regarding units.
SignificantDecimal	Number	Integer	The significant figure.
CodeListName	Text	50	Provides the table where the code of the variable can be found. See VariableCodesLookup tables for associated data.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: VariableCodesLookUp		Current Number of Records: 68	As of : 08/17/09
Notes: MLML currently has control over this table. This table is part of data dictionary object and stores unique list of options for selected fields. See UnitsLookUp table for associated data in CANOD.			
Field Name	Data Type	Field Size	Description
VariableCodesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
CodeListName	Text	50	Unique code referencing the Name of code lists. See UnitsLookUp for associated data.
ValueCode	Text	50	Unique code referencing applicable values per variable.
CodeDescription	Text	255	Description of code.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: VariablesLookUp		Current Number of Records: 319	As of : 08/17/09
Notes: MLML currently has control over this table. This table is a master table for the data dictionary; metadata about field contents. See UnitsLookUp table for associated data.			
Field Name	Data Type	Field Size	Description
VariablesRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
VariableName	Text	40	Full variable name. See UnitsLookUp for associated data.
Active	Yes/No	Yes/No	Utility column used to limit LookUp list values in forms and queries.
VariableDescription	Text	250	Provides a description of the variables.
VariableType	Number	Byte	See VariableTypeLookup table for details.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: WBTypeLookUp		Current Number of Records: 20	As of : 08/17/09
Notes: SWAMP currently has control over this table. This table provides information regarding GEOWBS Water Body Types. There are no other tables associated with this data at this time.			
Field Name	Data Type	Field Size	Description
WBTypeRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
WBTypeCode	Text	50	A code provided to the WB types. An alphabetical code identifying the site as a wetlands, tidal, estuaries, rivers, streams, saline lakes, coastal shorelines, or lakes/reservoirs.
WBTypeName	Text	255	Full name of the water body types.
WBTypeComments	Text	255	Comments regarding the water body types.
StateWBTypeCode	Text	10	This field is currently not populated.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: xISSIDORGs		Current Number of Records: 2,905	As of : 08/17/09
Notes: MLML currently has control over this table. This table lists all of our IDORGs collected and all the pertinent info for those IDORGs. It lists the replicate #, depth, profile, area sampled, sieve size used, lat/long for the IDORG (or station), how many containers the sample was put into, where it was sent for sorting, habitat notes and IDORG comments. There are no other tables associated with this table.			
Field Name	Data Type	Field Size	Description
IDORGRowID	AutoNumber	Replication ID	Primary Key. Unique Row Identifier; generated from within database.
CollectionRowID	Number	Replication ID	Unique Row Identifier; generated from within database.
IDORG	Text	50	A unique identifying number for each field sample
Replicate	Number	Long Integer	Qualitative samples may have several replicates within an IDORG (in this case it is the combination of IDORG and rep# that identifies that sample), whereas quantitative samples often have replicates but they are assigned unique IDORG numbers
DepthCollection	Text	50	Low, mid zone or subtidal depth
UnitDepthCollection	Text	50	NA or ft or m for subtidal depth
ProfileName	Text	50	The profile of the quadrat (this applies only to sample type: clearing). choices include but are not limited to vertical, horizontal, dock underside

Table Name: xISSIDORGs		Current Number of Records: 2,905	As of : 08/17/09
Notes: MLML currently has control over this table. This table lists all of our IDORGs collected and all the pertinent info for those IDORGs. It lists the replicate #, depth, profile, area sampled, sieve size used, lat/long for the IDORG (or station), how many containers the sample was put into, where it was sent for sorting, habitat notes and IDORG comments. There are no other tables associated with this table.			
Field Name	Data Type	Field Size	Description
AreaSampled	Text	50	Record the total area sampled; most often this will equal the area sampled by the sampling device, but sometimes we will use a sampling device and collect a larger area; if area sampled was not recorded enter "unknown"
UnitAreaSampled	Text	50	NA if no area was determined; m ² , gallon, etc.
SieveSizeCode	Number	Long Integer	From lookup
Latitude	Number	Double	If coordinates were taken specific to that IDORG, enter it here. This is NOT a required field. The datum used for this lat will be the same datum used for the general station coordinates for that visit (found in the Geometry table)
Longitude	Number	Double	If coordinates were taken specific to that IDORG, enter it here. This is NOT a required field. The datum used for this long will be the same datum used for the general station coordinates for that visit (found in the Geometry table)
Accuracy	Text	50	The accuracy of the GPS unit at the time the coordinates are recorded in the field

Table Name: xISSIDORGs		Current Number of Records: 2,905	As of : 08/17/09
Notes: MLML currently has control over this table. This table lists all of our IDORGs collected and all the pertinent info for those IDORGs. It lists the replicate #, depth, profile, area sampled, sieve size used, lat/long for the IDORG (or station), how many containers the sample was put into, where it was sent for sorting, habitat notes and IDORG comments. There are no other tables associated with this table.			
Field Name	Data Type	Field Size	Description
NumberofContainers	Number	Long Integer	Number of containers collected from the field for the IDORG
ContainerTypeCode	Number	Long Integer	Such as liter, gallon, zip-lock baggie, etc.
NumberofAlgaePages	Number	Long Integer	Applies only to qualitative samples; this is the number of pages we have qualitative algae samples pressed on for that IDORG
FieldFixative	Text	50	Name the chemical the sample was fixed in right after collecting it in the field. i.e.: 10% formalin, 90-95% ethanol, 70% isopropyl alcohol, etc. This table is not populated at this time.
MagChlorideUsed	Yes/No	Yes/No	MagChloride is sometimes used to relax specimens before fixing them
DateSentSorting	Date/Time	dd/mm/yy y	Date IDORG sent out to be sorted (for example, to benthic lab for sorting; qualitative samples sent directly to taxonomists get date of 1/1/1950 in this table)
SortingAgencyCode	Text	50	Name the agency, taxonomist, benthic lab, etc. that the IDORG was sent to

Table Name: xISSIDORGs		Current Number of Records: 2,905	As of : 08/17/09
Notes: MLML currently has control over this table. This table lists all of our IDORGs collected and all the pertinent info for those IDORGs. It lists the replicate #, depth, profile, area sampled, sieve size used, lat/long for the IDORG (or station), how many containers the sample was put into, where it was sent for sorting, habitat notes and IDORG comments. There are no other tables associated with this table.			
Field Name	Data Type	Field Size	Description
CollectionHabitatNotes	Memo	N/A	This will include field notes that were taken for individual IDORGs; enter the habitat description for qualitative collections here as well
IDORGComments	Memo	N/A	Additional comments regarding IDORGs.
Gen_CollectionHabitatNotes	Number	Long Integer	These are valid for replication but they are created by the database itself.
Gen_IDORGComments	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.

Table Name: xISSSplitMethod		Current Number of Records: 2,568	As of : 08/17/09
Notes: MLML currently has control over this table.			
Field Name	Data Type	Field Size	Description
SplitMethodRowID	AutoNumber	Long Integer	Primary Key. Unique Row Identifier; generated from within database.
IDORGRowID	Number	Long Integer	Unique Row Identifier; generated from within database.
QuantitativeOrScan	Text	50	Describes benthic lab method; if it goes through the benthic lab it will be either quantitative or scan(qualitative); if it is a field qualitative it will be 'FieldQualitative'
DensitySeparation	Text	50	Describes benthic lab method; supernatant, granular or whole; 'none' if it is a field qualitative sample
PrimarySubsample	Number	Single	Describes sub-sampling of original IDORG that occurs in the benthic lab; gives percent of original sample that was sorted; if it says 100 then no sub-sampling occurred.
SecondarySubsample	Number	Single	Describes sub-sampling of original IDORG that occurs in the benthic lab; gives percent of primary sample that was sorted; if it says 100 then no sub-sampling occurred.
ThirdSubsample	Number	Single	Describes sub-sampling of original IDORG that occurs in the benthic lab; gives percent of secondary sample that was sorted; if it says 100 then no sub-sampling occurred.

Table Name: xISSSplitMethod		Current Number of Records: 2,568	As of : 08/17/09
Notes: MLML currently has control over this table.			
Field Name	Data Type	Field Size	Description
FinalSubsample	Number	Long Integer	The calculated total proportion of the original IDORG that was sorted for this subIDORG/vial; 100 for field qualitative samples
SplitMethodComments	Text	250	This field will provided additional comments on split methods. It is not populated at this time.
s_ColLineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.
s_Generation	Number	Long Integer	These are valid for replication but they are created by the database itself.
s_Lineage	OLE Object	N/A	Long binary data. These are valid for replication but they are created by the database itself.